AD-A061 483 SCOTT ENVIRONMENTAL TECHNOLOGY INC PLUMSTEADVILLE PA F/G 21/5
U.S. AIR FORCE TURBINE ENGINE EMISSION SURVEY. VOLUME III. ENGI--ETC(U)
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UNCLASSIFIED CEEDO-TR-78-34 NL

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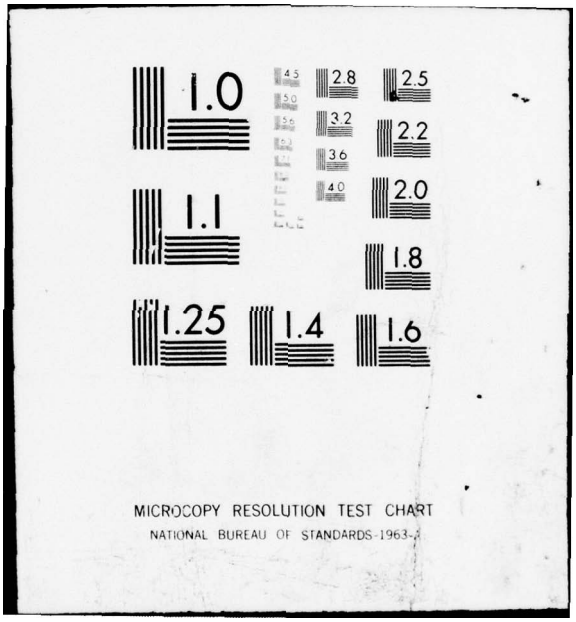
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CEEDO-TR-78-34

U.S. AIR FORCE TURBINE ENGINE EMISSION SURVEY VOL III ENGINE MODEL SUMMARIES

ANTHONY F. SOUZA
SCOTT ENVIRONMENTAL TECHNOLOGY, INC.
PLUMSTEADVILLE, PENNSYLVANIA 18949

PETER S. DALEY
ENVIRONMENTAL ASSESSMENT RESEARCH DIVISION
DIRECTORATE OF ENVIRONICS

[redacted]

AUGUST 1978

FINAL REPORT FOR PERIOD JANUARY 1975-JUNE 1978

Approved for public release; distribution unlimited

CEEDO

CIVIL AND ENVIRONMENTAL ENGINEERING DEVELOPMENT OFFICE
(AIR FORCE SYSTEMS COMMAND)
TYNDALL AIR FORCE BASE
FLORIDA 32403

UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

REPORT DOCUMENTATION PAGE

READ INSTRUCTIONS BEFORE COMPLETING FORM

1. REPORT NUMBER: CEEDO-TR-78-34	2. GOVT ACCESSION NO.
3. RECIPIENT'S CATALOG NUMBER	
4. TITLE (and Subtitle): U. S. AIR FORCE TURBINE ENGINE EMISSION SURVEY, VOLUME III. ENGINE MODEL SUMMARIES	5. TYPE OF REPORT & PERIOD COVERED: Final Report, Jan 1975 - Jun 1978
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7. AUTHOR(s): Anthony F. Souza, Peter S. Daley	8. CONTRACT OR GRANT NUMBER(s): USAF F29601-75-C-0046
9. PERFORMING ORGANIZATION NAME AND ADDRESS: Scott Environmental Technology, Inc., Plumsteadville, Pennsylvania 18949	10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS: 63723F: 21032A10
11. CONTROLLING OFFICE NAME AND ADDRESS: Det 1 ADTC, Civil and Environmental Engineering Development Office, Tyndall AFB, Florida 32403	12. REPORT DATE: August 1978
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14. MONITORING AGENCY NAME & ADDRESS(if different from Controlling Office)	15. SECURITY CLASS. (of this report): UNCLASSIFIED
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Approved for public release; distribution unlimited.

17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)

18. SUPPLEMENTARY NOTES

Available in DDC

19. KEY WORDS (Continue on reverse side if necessary and identify by block number)

Gas Turbine Engines	Smoke	Oxides of Nitrogen
Exhaust Emissions	Particulates	Afterburner Emissions
Air Pollution	Carbon Monoxide	
	Total Hydrocarbons	

20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

The gaseous exhaust emissions from 14 military gas turbine engines were measured at various power levels from idle to full power including afterburning. SAE smoke number was determined. All measurements were made using the Air Force Mobile Emissions Laboratory which is a self-contained state-of-the-art gas turbine emissions test laboratory. Emission rates of hydrocarbons, carbon monoxide and oxides of nitrogen were calculated. The emission rate of sulfur oxides was estimated from fuel analyses.

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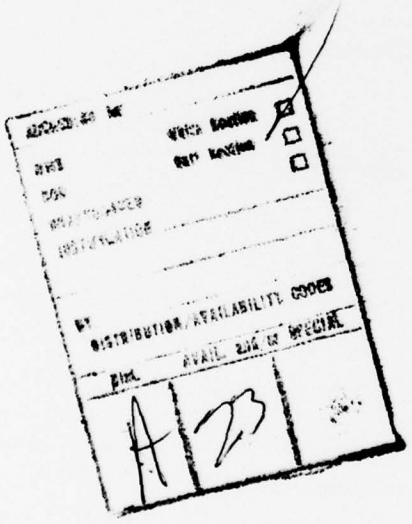
UNCLASSIFIED 393 052

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

Continued from Block 20.

The body of data was analyzed to show relationships among the data. These studies included the effect of power setting on emission index and smoke number, variation of gas concentrations across the exhaust plume and the degree of uncertainty introduced by abbreviated sampling methods. A summary table of "Best Estimate" emission factors for all the engines tested is provided.



PREFACE

This report was prepared by Scott Environmental Technology, Inc. under Air Force Contract Number F29601-75-C-0046. The work reported herein was administered under the direction of the Environics Directorate of the Air Force Civil and Environmental Engineering Development Office (Det 1 ADTC) with Major Peter S. Daley serving as Project Officer. Work was performed from January 1975 through June 1977. The engine test program was performed with the cooperation of the following Air Force organizations and private engine overhaulers; their excellent cooperation is gratefully acknowledged.

Teledyne; Nesho MO

First Composite Wing; Andrews AFB MD

Air Force Logistics Command; Kelly AFB TX

Air Force Logistics Command; Tinker AFB OK

Air Force Tactical Air Command Headquarters; Langley AFB VA

General Electric Company; Lynn MA

This report is presented in three volumes. Volume I is an overall description of the work performed and the results obtained. A table of best estimate emission factors for Air Force gas turbine engines is presented in Volume I. Volume II contains the results of the individual tests of each engine. Volume III contains the Model Summaries which are statistical summaries of the test results by engine model.

Pete S. Daley

PETER S. DALEY, Major, USAF, BSC
Project Officer

Peter A. Crowley

PETER A. CROWLEY, Major, USAF, BSC
Director of Environics

Joseph S. Pizzuto

JOSEPH S. PIZZUTO, Col, USAF, BSC
Commander

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APPENDIX

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APPENDIX C

MODEL SUMMARIES

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SET 1492-004-1275

REPORT DATE 02/11/77
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : J69-T25

TEST LOCATION : TELEDYNE,NEO

ENGINE 1, PAGE 1

***** CATEGORY A TESTS ONLY *****

EXHAUST MASS EMISSION INDICES :

PARAM	TEST MODE	# / 1000# FUEL NO. OBS	# / 1000# FUEL MAX VALUE	# / 1000# FUEL MIN VALUE	# / 1000# FUEL MEAN	# / 1000# FUEL STND DEV	# / 1000# FUEL % COEF VAR	# / HR NO. OBS	# / HR MAX VALUE	# / HR MIN VALUE	# / HR MEAN	# / HR STND DEV	# / HR % COEF VAR
THC	IDLE	1	15.98	15.98				1	3.52	3.52			
	INTERMED. 1	0						0					
	INTERMED. 2	0						0					
	NORMAL	1	1.35	1.35				1	0.90	0.90			
	MILITARY	1	0.53	0.53				1	0.57	0.57			
CO	IDLE	1	134.54	134.54				1	29.6	29.6			
	INTERMED. 1	0						0					
	INTERMED. 2	0						0					
	NORMAL	1	52.64	52.64				1	35.3	35.3			
	MILITARY	1	34.24	34.24				1	37.3	37.3			
NOX	IDLE	1	1.52	1.52				1	0.33	0.33			
	INTERMED. 1	0						0					
	INTERMED. 2	0						0					
	NORMAL	1	2.61	2.61				1	1.75	1.75			
	MILITARY	1	3.60	3.60				1	3.93	3.93			
NO	IDLE	1	0.06	0.06				1	0.01	0.01			
	INTERMED. 1	0						0					
	INTERMED. 2	0						0					
	NORMAL	1	1.06	1.06				1	0.71	0.71			
	MILITARY	1	2.09	2.09				1	2.23	2.23			
NO2	IDLE	1	1.46	1.46				1	0.32	0.32			
	INTERMED. 1	0						0					
	INTERMED. 2	0						0					
	NORMAL	1	1.56	1.56				1	1.04	1.04			
	MILITARY	1	1.55	1.55				1	1.69	1.69			
SOX	IDLE	0						1	0.44	0.44			
	INTERMED. 1	0						0					
	INTERMED. 2	0						0					
	NORMAL	0						1	1.34	1.34			
	MILITARY	0						1	2.18	2.18			

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
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REPORT DATE 02/11/77
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ENGINE MODEL : J69-T25

TEST LOCATION : TELEDYNE,NEO

***** CATEGORY A TESTS ONLY *****

MEASURED FUEL FLOW & SMOKE NUMBER :

	TEST MODE	MEAS. FUEL FLOW - #/HR NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	SMOKE NUMBER NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
	IDLE	1	220	220				1	32.55	32.55			
	INTERMED. 1	0						0					
	INTERMED. 2	0						0					
	NORMAL	1	670	670				1	1.67	1.67			
	MILITARY	1	1090	1090				1	3.24	3.24			

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
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ENGINE MODEL : J69-T25

TEST LOCATION : TELEDYNE,NEO

ENGINE 1, PAGE 1

***** CATEGORY B TESTS ONLY *****

EXHAUST MASS EMISSION INDICES :

PARAM	TEST MODE	# / 1000# FUEL NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	# / HR NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
THC	IDLE	10	35.57	6.86	19.86	10.421	52.48	10	8.18	1.51	4.62	2.437	52.71
	INTERMED. 1	2	12.38	7.57	9.97	3.401	34.10	2	3.59	2.16	2.87	1.011	35.17
	INTERMED. 2	2	5.95	2.21	4.08	2.645	64.82	2	3.09	1.16	2.13	1.351	63.26
	NORMAL	10	1.87	0.59	1.29	0.497	38.60	10	1.23	0.42	0.89	0.316	35.62
	MILITARY	10	0.75	0.24	0.49	0.156	31.50	10	0.79	0.26	0.54	0.165	30.58
CO	IDLE	10	161.45	103.83	126.44	21.972	17.38	10	37.9	23.9	29.3	5.25	1.79
	INTERMED. 1	2	98.61	97.10	97.85	1.068	1.09	2	28.6	27.7	28.2	0.64	0.23
	INTERMED. 2	2	64.11	56.40	60.25	5.452	9.05	2	34.3	29.3	31.8	3.54	1.11
	NORMAL	10	56.27	36.50	48.72	5.655	11.61	10	37.7	30.3	33.8	2.55	0.75
	MILITARY	10	33.39	28.25	31.02	1.601	5.16	10	36.8	30.6	34.0	1.92	0.57
NOX	IDLE	9	1.80	1.27	1.53	0.186	12.10	9	0.41	0.29	0.36	0.042	11.86
	INTERMED. 1	2	2.12	1.98	2.05	0.099	4.83	2	0.60	0.58	0.59	0.014	2.40
	INTERMED. 2	2	2.79	2.55	2.67	0.170	6.36	2	1.45	1.37	1.41	0.057	4.01
	NORMAL	9	3.31	1.67	2.68	0.534	19.96	9	2.82	1.10	1.91	0.566	29.68
	MILITARY	9	4.15	2.66	3.60	0.520	14.47	9	4.50	2.86	3.95	0.561	14.16
NO	IDLE	10	1.81	0.04	0.41	0.578	139.70	10	0.42	0.01	0.10	0.134	139.69
	INTERMED. 1	2	0.22	0.14	0.18	0.057	31.43	2	0.06	0.04	0.05	0.014	28.28
	INTERMED. 2	2	1.12	0.96	1.04	0.113	10.88	2	0.58	0.51	0.54	0.049	9.08
	NORMAL	10	2.91	1.01	1.67	0.555	34.10	10	1.92	0.67	1.15	0.412	35.98
	MILITARY	10	3.81	2.19	2.53	0.469	17.84	10	4.04	2.34	2.87	0.485	16.86
NO2	IDLE	9	1.70	0.39	1.27	0.431	33.84	9	0.39	0.09	0.30	0.100	33.88
	INTERMED. 1	2	1.90	1.85	1.87	0.035	1.89	2	0.54	0.54	0.54	0.000	0.00
	INTERMED. 2	2	1.68	1.59	1.63	0.064	3.89	2	0.87	0.85	0.86	0.014	1.64
	NORMAL	9	1.64	0.41	1.19	0.478	40.12	9	1.35	0.28	0.85	0.380	44.46
	MILITARY	9	1.57	0.31	1.10	0.552	50.19	9	1.76	0.35	1.21	0.603	50.01
SOX	IDLE	0						10	0.48	0.18	0.33	0.140	41.65
	INTERMED. 1	0						2	0.58	0.57	0.57	0.007	1.23
	INTERMED. 2	0						2	1.07	1.04	1.05	0.021	2.01
	NORMAL	0						10	1.74	0.53	1.03	0.492	47.70
	MILITARY	0						10	2.24	0.88	1.58	0.650	41.20

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SET 1492-004-1275

REPORT DATE 02/11/77
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : J69-T25

TEST LOCATION : TELEDYNE,NEO

***** CATEGORY B TESTS ONLY *****

MEASURED FUEL FLOW & SMOKE NUMBER :

	TEST MODE	MEAS. FUEL FLOW - #/HR NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	SMOKE NUMBER NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
	IDLE	10	240	220	232	5.9	2.53	10	48.05	24.46	39.40	8.213	20.85
	INTERMED. 1	2	290	285	288	3.5	1.23	2	37.56	34.16	35.86	2.404	6.70
	INTERMED. 2	2	535	520	528	10.6	2.01	2	5.34	0.00	2.67	3.776	141.42
	NORMAL	10	670	655	701	80.4	11.48	10	7.97	0.00	2.02	2.505	124.19
	MILITARY	10	1120	1060	1096	20.3	1.86	10	11.20	0.00	2.67	3.591	134.34

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ENGINE MODEL SUMMARY REPORT

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REPORT DATE 02/11/77
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : J69-T25

TEST LOCATION : TELEDYNE,NEO

ENGINE 1, PAGE 1

***** CATEGORY C TESTS ONLY *****

EXHAUST MASS EMISSION INDICES :

PARAM	TEST MODE	# / 1000# FUEL NO. OBS	# / 1000# FUEL MAX VALUE	# / 1000# FUEL MIN VALUE	# / 1000# FUEL MEAN	# / 1000# FUEL STND DEV	# / 1000# FUEL % COEF VAR	# / HR NO. OBS	# / HR MAX VALUE	# / HR MIN VALUE	# / HR MEAN	# / HR STND DEV	# / HR % COEF VAR
THC	IDLE	1	6.91	6.91				1	1.52	1.52			
	INTERMED. 1	0						0					
	INTERMED. 2	0						0					
	NORMAL	1	0.50	0.50				1	0.33	0.33			
	MILITARY	1	0.48	0.48				1	0.52	0.52			
CO	IDLE	1	114.49	114.49				1	25.2	25.2			
	INTERMED. 1	0						0					
	INTERMED. 2	0						0					
	NORMAL	1	48.31	48.31				1	31.9	31.9			
	MILITARY	1	27.74	27.74				1	30.5	30.5			
NOX	IDLE	1	1.59	1.59				1	0.35	0.35			
	INTERMED. 1	0						0					
	INTERMED. 2	0						0					
	NORMAL	1	2.77	2.77				1	1.83	1.83			
	MILITARY	1	3.87	3.87				1	4.26	4.26			
NO	IDLE	1	0.13	0.13				1	0.03	0.03			
	INTERMED. 1	0						0					
	INTERMED. 2	0						0					
	NORMAL	1	1.41	1.41				1	0.93	0.93			
	MILITARY	1	2.56	2.56				1	2.82	2.82			
NO2	IDLE	1	1.46	1.46				1	0.32	0.32			
	INTERMED. 1	0						0					
	INTERMED. 2	0						0					
	NORMAL	1	1.35	1.35				1	0.89	0.89			
	MILITARY	1	1.31	1.31				1	1.44	1.44			
SOX	IDLE	0						1	0.18	0.18			
	INTERMED. 1	0						0					
	INTERMED. 2	0						0					
	NORMAL	0						1	0.53	0.53			
	MILITARY	0						1	0.88	0.88			

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
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ENGINE MODEL SUMMARY REPORT

SET 1492-004-1275

REPORT DATE 02/11/77
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : J69-T25

TEST LOCATION : TELEDYNE,NEO

***** CATEGORY C TESTS ONLY *****

MEASURED FUEL FLOW & SMOKE NUMBER :

	TEST MODE	MEAS. FUEL FLOW - #/HR NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	SMOKE NUMBER NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
	IDLE	1	220	220				1	49.50	49.50			
	INTERMED. 1	0						0					
	INTERMED. 2	0						0					
	NORMAL	1	660	660				1	0.00	0.00			
	MILITARY	1	1100	1100				1	0.00	0.00			

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SET 1492-004-1275

REPORT DATE 02/11/77
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : J85-5

TEST LOCATION : TELEDYNE,NEO

ENGINE 2, PAGE 1

***** CATEGORY A TESTS ONLY *****

EXHAUST MASS EMISSION INDICES :

PARAM	TEST MODE	# / 1000# FUEL NO. OBS	# / 1000# FUEL MAX VALUE	# / 1000# FUEL MIN VALUE	# / 1000# FUEL MEAN	# / 1000# FUEL STND DEV	# / 1000# FUEL % COEF VAR	# / HR NO. OBS	# / HR MAX VALUE	# / HR MIN VALUE	# / HR MEAN	# / HR STND DEV	# / HR % COEF VAR
THC	IDLE	1	31.05	31.05				1	13.97	13.97			
	INTERMED. 1	0						0					
	INTERMED. 2	0						0					
	NORMAL	1	3.74	3.74				1	5.27	5.27			
	MILITARY	1	0.84	0.84				1	2.28	2.28			
CO	IDLE	1	172.93	172.93				1	77.8	77.8			
	INTERMED. 1	0						0					
	INTERMED. 2	0						0					
	NORMAL	1	41.30	41.30				1	58.2	58.2			
	MILITARY	1	28.07	28.07				1	76.3	76.3			
NOX	IDLE	1	1.29	1.29				1	0.58	0.58			
	INTERMED. 1	0						0					
	INTERMED. 2	0						0					
	NORMAL	1	2.35	2.35				1	3.32	3.32			
	MILITARY	1	2.53	2.53				1	6.89	6.89			
NO	IDLE	1	0.17	0.17				1	0.08	0.08			
	INTERMED. 1	0						0					
	INTERMED. 2	0						0					
	NORMAL	1	0.68	0.68				1	0.96	0.96			
	MILITARY	1	1.51	1.51				1	4.12	4.12			
NO2	IDLE	1	1.12	1.12				1	0.50	0.50			
	INTERMED. 1	0						0					
	INTERMED. 2	0						0					
	NORMAL	1	1.67	1.67				1	2.36	2.36			
	MILITARY	1	1.02	1.02				1	2.77	2.77			
SOX	IDLE	0						1	0.36	0.36			
	INTERMED. 1	0						0					
	INTERMED. 2	0						0					
	NORMAL	0						1	1.13	1.13			
	MILITARY	0						1	2.17	2.17			

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
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REPORT DATE 02/11/77
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : J85-5

TEST LOCATION : TELEDYNE,NEO

ENGINE 2, PAGE 2

***** CATEGORY A TESTS ONLY *****

MEASURED FUEL FLOW & SMOKE NUMBER :

	TEST MODE	MEAS. FUEL FLOW - #/HR NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	SMOKE NUMBER NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
	IDLE	1	450	450				1	0.00	0.00			
	INTERMED. 1	0						0					
	INTERMED. 2	0						0					
	NORMAL	1	1410	1410				1	0.00	0.00			
	MILITARY	1	2720	2720				1	3.58	3.58			

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
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ENGINE MODEL : J85-5

TEST LOCATION : TELEDYNE,NEO

ENGINE 2, PAGE 1

***** CATEGORY B TESTS ONLY *****

EXHAUST MASS EMISSION INDICES :

PARAM	TEST MODE	# / 1000# FUEL NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	# / HR NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
THC	IDLE	9	49.48	23.53	29.78	8.154	27.38	9	22.27	10.59	13.49	3.628	26.90
	INTERMED. 1	2	20.56	18.82	19.69	1.230	6.25	2	12.13	11.10	11.61	0.728	6.27
	INTERMED. 2	2	7.04	4.63	5.83	1.704	29.21	2	8.16	5.23	6.69	2.072	30.95
	NORMAL	9	5.32	1.53	3.33	1.221	36.62	9	7.87	2.09	4.93	1.896	38.44
	MILITARY	9	1.27	0.44	0.84	0.269	31.96	9	3.35	1.11	2.20	0.721	32.71
	MAX AB	3	0.12	0.01	0.07	0.057	77.54	3	1.01	0.10	0.61	0.464	76.44
CO	IDLE	9	204.35	166.98	180.30	10.973	6.09	9	92.0	74.0	81.7	5.03	0.62
	INTERMED. 1	2	133.10	130.23	131.66	2.029	1.54	2	78.5	76.6	77.6	1.20	0.15
	INTERMED. 2	2	56.71	53.57	55.14	2.220	4.03	2	65.8	60.5	63.2	3.75	0.59
	NORMAL	9	48.58	39.72	43.57	2.766	6.35	9	71.9	56.4	64.0	5.45	0.85
	MILITARY	9	33.48	27.00	29.47	2.256	7.66	9	90.1	68.6	77.3	7.31	0.95
	MAX AB	3	27.24	23.81	26.04	1.930	7.41	3	228.1	198.1	216.7	16.24	0.75
NOX	IDLE	9	1.39	1.17	1.26	0.072	5.68	9	0.62	0.53	0.57	0.029	5.00
	INTERMED. 1	2	1.55	1.43	1.49	0.085	5.69	2	0.91	0.85	0.88	0.042	4.82
	INTERMED. 2	2	2.10	1.77	1.93	0.233	12.06	2	2.44	2.00	2.22	0.311	14.01
	NORMAL	9	3.14	1.96	2.32	0.354	15.27	9	4.62	2.79	3.40	0.522	15.34
	MILITARY	9	3.71	2.38	2.70	0.416	15.40	9	9.99	6.12	7.08	1.139	16.09
	MAX AB	3	2.15	1.87	1.99	0.143	7.17	3	18.09	15.34	16.59	1.393	8.40
NO	IDLE	9	0.89	0.11	0.37	0.236	63.79	9	0.40	0.05	0.17	0.107	63.92
	INTERMED. 1	2	0.45	0.09	0.27	0.255	94.26	2	0.27	0.05	0.16	0.156	97.23
	INTERMED. 2	2	0.58	0.29	0.43	0.205	47.14	2	0.67	0.33	0.50	0.240	48.08
	NORMAL	9	1.55	0.73	0.97	0.303	31.35	9	2.20	1.06	1.42	0.420	29.69
	MILITARY	9	2.01	0.55	1.53	0.416	27.17	9	5.10	1.45	4.00	1.062	26.51
	MAX AB	3	1.35	1.28	1.32	0.038	2.86	3	11.41	10.53	11.04	0.456	4.15
NO2	IDLE	9	1.06	0.50	0.89	0.175	19.57	9	0.49	0.22	0.40	0.081	20.10
	INTERMED. 1	2	1.35	1.10	1.22	0.177	14.43	2	0.80	0.65	0.72	0.106	14.63
	INTERMED. 2	2	1.52	1.48	1.50	0.028	1.89	2	1.77	1.68	1.72	0.064	3.69
	NORMAL	9	2.41	0.69	1.35	0.477	35.18	9	3.55	1.00	1.99	0.709	35.60
	MILITARY	9	2.24	0.67	1.17	0.553	47.28	9	6.02	1.87	3.07	1.491	48.51
	MAX AB	3	0.79	0.58	0.66	0.112	16.81	3	6.68	4.61	5.54	0.998	18.01
SOX	IDLE	0						9	0.90	0.35	0.42	0.179	42.26
	INTERMED. 1	0						2	0.47	0.47	0.47	0.000	0.00
	INTERMED. 2	0						2	0.93	0.90	0.91	0.021	2.32
	NORMAL	0						9	2.94	1.09	1.37	0.592	43.33
	MILITARY	0						9	5.37	1.99	2.45	1.090	44.73

MAX A8 J 15.84 5.57 10.02 3.908 56.75

7 SCOTT ENVIRONMENTAL TECHNOLOGY INC. SET 1492-004-1275 REPORT DATE 02/11/77
USAF TURBINE ENGINE EMISSIONS INVENTORY USAF CONTRACT F29601-75-C-0046
ENGINE MODEL SUMMARY REPORT

ENGINE MODEL : J85-5 TEST LOCATION : TELEDYNE,NEO ENGINE 2, PAGE 2

***** CATEGORY A TESTS ONLY *****

MEASURED FUEL FLOW & SMOKE NUMBER :

		---------- MEAS. FUEL FLOW - #/HR ----------					*---------- SMOKE NUMBER ----------*					
	TEST MODE	NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
	IDLE	9	460	440	453	7.1	1.56	9	3.10	0.00	0.46	1.048	227.84
	INTERMED. 1	2	590	590	590	0.0	0.00	2	0.00	0.00	0.00	0.000	0.00
	INTERMED. 2	2	1160	1130	1145	21.2	1.85	2	1.04	0.52	0.78	0.368	47.14
	NORMAL	9	1570	1370	1468	63.4	4.32	9	5.58	0.00	1.62	1.900	117.51
	MILITARY	9	2770	2490	2620	82.8	3.16	9	7.37	0.50	2.79	1.957	70.25
	MAX A8	3	8430	8220	8323	105.0	1.26	2	8.70	1.75	5.22	4.914	94.06

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SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SET 1492-004-1275

REPORT DATE 02/11/77
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : J85-5

TEST LOCATION : TELEDYNE,NEO

ENGINE 2, PAGE 1

***** CATEGORY C TESTS ONLY *****

EXHAUST MASS EMISSION INDICES :

PARAM	TEST MODE	# / 1000# FUEL NO. OBS	# / 1000# FUEL MAX VALUE	# / 1000# FUEL MIN VALUE	# / 1000# FUEL MEAN	# / 1000# FUEL STND DEV	# / 1000# FUEL % COEF VAR	# / HR NO. OBS	# / HR MAX VALUE	# / HR MIN VALUE	# / HR MEAN	# / HR STND DEV	# / HR % COEF VAR
THC	IDLE	1	29.74	29.74				1	13.38	13.38			
	INTERMED. 1	0						0					
	INTERMED. 2	0						0					
	NORMAL	1	3.24	3.24				1	4.70	4.70			
	MILITARY	2	0.83	0.58	0.70	0.177	25.07	2	2.18	1.54	1.86	0.453	24.33
CO	IDLE	1	182.55	182.55				1	82.1	82.1			
	INTERMED. 1	0						0					
	INTERMED. 2	0						0					
	NORMAL	1	41.97	41.97				1	60.9	60.9			
	MILITARY	2	27.37	27.19	27.28	0.127	0.47	2	72.3	71.8	72.1	0.35	0.05
NOX	IDLE	1	1.16	1.16				1	0.52	0.52			
	INTERMED. 1	0						0					
	INTERMED. 2	0						0					
	NORMAL	1	2.09	2.09				1	3.02	3.02			
	MILITARY	2	2.46	2.42	2.44	0.028	1.16	2	6.51	6.39	6.45	0.085	1.32
NO	IDLE	1	0.13	0.13				1	0.06	0.06			
	INTERMED. 1	0						0					
	INTERMED. 2	0						0					
	NORMAL	1	1.53	1.53				1	2.22	2.22			
	MILITARY	2	1.59	1.50	1.54	0.064	4.12	2	4.20	3.97	4.08	0.163	3.98
NO2	IDLE	1	1.03	1.03				1	0.46	0.46			
	INTERMED. 1	0						0					
	INTERMED. 2	0						0					
	NORMAL	1	0.55	0.55				1	0.80	0.80			
	MILITARY	2	0.92	0.87	0.89	0.035	3.95	2	2.42	2.30	2.36	0.085	3.60
SOX	IDLE	0						1	0.36	0.36			
	INTERMED. 1	0						0					
	INTERMED. 2	0						0					
	NORMAL	0						1	1.16	1.16			
	MILITARY	0						2	2.11	2.11	2.11	0.000	0.00

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SET 1492-004-1275

REPORT DATE 02/11/77
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : J85-5

TEST LOCATION : TELEDYNE,NEO

***** CATEGORY C TESTS ONLY *****

MEASURED FUEL FLOW & SMOKE NUMBER :

	TEST MODE	MEAS. FUEL FLOW - #/HR NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	SMOKE NUMBER NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
	IDLE	1	450	450				1	0.00	0.00			
	INTERMED. 1	0						0					
	INTERMED. 2	0						0					
	NORMAL	1	1450	1450				1	0.00	0.00			
	MILITARY	2	2640	2640	2640	0.0	0.00	2	2.50	0.00	1.25	1.768	141.42

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SET 1492-005-1275

REPORT DATE 02/11/77
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : J60-P3 & P3B

TEST LOCATION : ANDREWS AFB

ENGINE 3, PAGE 1

***** CATEGORY A TESTS ONLY *****

EXHAUST MASS EMISSION INDICES :

PARAM	TEST MODE	# / 1000# FUEL NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	# / HR NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
THC	IDLE	2	8.86	7.37	8.11	1.054	12.98	2	4.34	3.10	3.72	0.877	23.57
	INTERMED. 1	0						0					
	INTERMED. 2	0						0					
	NORMAL	2	0.25	0.13	0.19	0.085	44.66	2	0.43	0.27	0.35	0.113	32.32
	MILITARY	2	0.23	0.10	0.16	0.092	55.71	2	0.49	0.26	0.37	0.163	43.37
CO	IDLE	2	73.10	63.16	68.13	7.029	10.32	2	35.6	26.5	31.2	6.58	2.11
	INTERMED. 1	0						0					
	INTERMED. 2	0						0					
	NORMAL	2	5.93	5.78	5.85	0.106	1.81	2	11.7	10.4	11.0	0.92	0.83
	MILITARY	2	4.32	3.94	4.13	0.269	6.51	2	10.1	9.2	9.6	0.64	0.66
NOX	IDLE	2	1.48	1.48	1.48	0.000	0.00	2	0.72	0.62	0.67	0.071	10.55
	INTERMED. 1	0						0					
	INTERMED. 2	0						0					
	NORMAL	2	4.07	3.73	3.90	0.240	6.16	2	8.25	6.53	7.39	1.216	16.46
	MILITARY	2	4.77	4.24	4.50	0.375	8.32	2	12.28	9.01	10.64	2.312	21.72
SO	IDLE	2	0.16	0.11	0.13	0.035	26.19	2	0.07	0.05	0.06	0.014	23.57
	INTERMED. 1	0						0					
	INTERMED. 2	0						0					
	NORMAL	2	3.31	3.14	3.22	0.120	3.73	2	6.71	5.50	6.10	0.856	14.01
	MILITARY	2	3.90	3.67	3.78	0.163	4.30	2	10.03	7.80	8.91	1.577	17.69
NO2	IDLE	2	1.37	1.33	1.35	0.028	2.10	2	0.67	0.56	0.61	0.078	12.65
	INTERMED. 1	0						0					
	INTERMED. 2	0						0					
	NORMAL	2	0.76	0.59	0.67	0.120	17.81	2	1.54	1.03	1.28	0.361	28.06
	MILITARY	2	0.87	0.57	0.72	0.212	29.46	2	2.25	1.22	1.73	0.728	41.98
SOX	IDLE	0						2	0.29	0.25	0.27	0.028	10.46
	INTERMED. 1	0						0					
	INTERMED. 2	0						0					
	NORMAL	0						2	1.21	1.05	1.13	0.113	10.01
	MILITARY	0						2	1.54	1.27	1.40	0.191	13.59

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SET 1492-005-1275

REPORT DATE 02/11/77
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : J69-P6 & P6B

TEST LOCATION : ANDREWS AFB

***** CATEGORY A TESTS ONLY *****

MEASURED FUEL FLOW & SMOKE NUMBER :

	TEST MODE	MEAS. FUEL FLOW - #/HR NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	SMOKE NUMBER NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
	IDLE	2	490	420	455	49.5	10.88	2	1.83	0.25	1.04	1.117	107.43
	INTERMED. 1	0						0					
	INTERMED. 2	0						0					
	NORMAL	2	2025	1750	1888	194.5	10.30	2	20.17	17.25	18.71	2.065	11.04
	MILITARY	2	2575	2125	2350	318.2	13.54	2	22.50	17.75	20.13	3.359	16.69

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SET 1492-005-1275

REPORT DATE 02/11/77
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : J60-P0 & P6B

TEST LOCATION : ANDREWS AFB

ENGINE 3, PAGE 1

***** CATEGORY B TESTS ONLY *****

EXHAUST MASS EMISSION INDICES :

		# / 1000# FUEL					# / HR				
PARAM	TEST MODE	NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
THC	IDLE	8	15.21	6.02	10.29	3.904	37.94	8	6.92	2.77	4.72	1.749	37.04
	INTERMED. 1	7	1.31	0.43	0.71	0.315	44.16	7	1.34	0.40	0.70	0.322	45.82
	INTERMED. 2	7	0.48	0.16	0.32	0.099	31.15	7	0.64	0.21	0.45	0.137	30.42
	NORMAL	8	0.29	0.05	0.12	0.078	64.71	8	0.53	0.09	0.24	0.146	59.39
	MILITARY	8	0.18	0.03	0.07	0.058	78.04	8	0.41	0.09	0.18	0.129	69.46
CO	IDLE	8	82.02	63.24	71.60	6.876	9.60	8	37.7	29.5	32.9	3.13	0.95
	INTERMED. 1	7	33.22	21.45	24.80	2.910	11.73	7	31.0	20.6	24.4	3.81	1.56
	INTERMED. 2	7	16.33	13.33	14.80	0.980	6.62	7	23.9	17.7	21.1	2.40	1.14
	NORMAL	8	6.63	5.23	5.69	0.445	7.82	8	12.6	9.7	11.6	1.02	0.88
	MILITARY	8	4.46	3.58	3.81	0.306	8.01	8	10.2	8.3	9.4	0.61	0.65
NOX	IDLE	8	1.68	1.06	1.49	0.204	13.68	8	0.80	0.49	0.69	0.099	14.46
	INTERMED. 1	7	2.64	2.10	2.36	0.170	7.21	7	2.70	2.12	2.32	0.209	9.03
	INTERMED. 2	7	3.33	2.77	3.09	0.182	5.90	7	5.17	3.93	4.40	0.409	9.31
	NORMAL	8	4.34	3.68	4.10	0.224	5.46	8	9.16	6.98	8.38	0.718	8.57
	MILITARY	8	5.05	4.20	4.76	0.300	6.29	8	12.73	9.45	11.83	1.077	9.10
HC	IDLE	8	1.47	0.07	0.39	0.473	122.05	8	0.71	0.03	0.18	0.229	125.42
	INTERMED. 1	7	2.31	1.18	1.73	0.343	19.75	7	2.37	1.21	1.70	0.376	22.06
	INTERMED. 2	7	3.03	2.13	2.53	0.281	11.13	7	4.69	3.09	3.61	0.551	15.28
	NORMAL	8	3.78	3.13	3.56	0.214	6.01	8	7.96	5.94	7.29	0.660	9.05
	MILITARY	8	4.52	3.67	4.21	0.251	5.95	8	11.42	8.26	10.47	1.015	9.69
NO2	IDLE	8	1.53	0.19	1.10	0.432	39.33	8	0.68	0.09	0.50	0.197	38.93
	INTERMED. 1	7	0.92	0.32	0.63	0.191	30.37	7	0.94	0.33	0.61	0.184	29.99
	INTERMED. 2	7	0.68	0.31	0.56	0.132	23.55	7	0.95	0.48	0.79	0.168	21.24
	NORMAL	8	0.76	0.32	0.53	0.154	28.71	8	1.59	0.67	1.09	0.328	30.17
	MILITARY	8	0.81	0.30	0.55	0.191	34.66	8	1.99	0.76	1.36	0.460	33.82
SOX	IDLE	0						8	0.29	0.26	0.28	0.010	3.73
	INTERMED. 1	0						7	0.61	0.54	0.59	0.030	5.11
	INTERMED. 2	0						7	0.93	0.79	0.85	0.051	5.93
	NORMAL	0						6	1.30	1.09	1.22	0.074	6.04
	MILITARY	0						8	1.62	1.35	1.49	0.089	6.01

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SET 1492-005-1275

REPORT DATE 02/11/77
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : J69-P9 & P5B

TEST LOCATION : ANDREWS AFB

ENGINE 3, PAGE 2

***** CATEGORY B TESTS ONLY *****

MEASURED FUEL FLOW & SMOKE NUMBER :

	TEST MODE	MEAS. FUEL FLOW - #/HR NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	SMOKE NUMBER NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
	IDLE	8	480	440	460	14.4	3.13	6	4.00	0.67	1.93	1.088	56.46
	INTERMED. 1	7	1025	900	981	50.2	5.12	7	10.50	3.50	6.71	3.033	45.17
	INTERMED. 2	7	1550	1320	1423	81.1	5.70	7	18.75	9.75	13.82	3.115	22.54
	NORMAL	8	2175	1825	2045	123.3	6.03	8	22.00	11.75	17.04	3.796	22.28
	MILITARY	8	2710	2250	2483	152.5	6.15	8	22.50	10.50	17.41	4.412	25.35

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SET 1492-005-1275

REPORT DATE 02/11/77
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : J60-P3 & P5B

TEST LOCATION : ANDREWS AFB

ENGINE 3, PAGE 1

***** CATEGORY C TESTS ONLY *****

EXHAUST MASS EMISSION INDICES :

PARAM	TEST MODE	# / 1000# FUEL: NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	# / HR: NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
THC	IDLE	2	6.73	6.73	6.73	0.000	0.00	2	3.23	2.99	3.11	0.170	5.46
	INTERMED. 1	0						0					
	INTERMED. 2	0						0					
	NORMAL	2	0.10	0.05	0.07	0.035	47.14	2	0.20	0.10	0.15	0.071	47.14
	MILITARY	2	0.06	0.06	0.06	0.000	0.00	2	0.14	0.14	0.14	0.000	0.00
CO	IDLE	2	65.79	63.99	64.89	1.273	1.96	2	30.7	29.3	30.0	0.99	0.33
	INTERMED. 1	0						0					
	INTERMED. 2	0						0					
	NORMAL	2	6.38	5.33	5.85	0.742	12.68	2	12.1	11.2	11.6	0.64	0.55
	MILITARY	2	4.19	3.23	3.71	0.679	18.30	2	9.4	7.9	8.6	1.06	1.23
NOX	IDLE	2	1.59	1.50	1.54	0.064	4.12	2	0.76	0.67	0.71	0.064	8.90
	INTERMED. 1	0						0					
	INTERMED. 2	0						0					
	NORMAL	2	4.29	3.62	3.95	0.474	11.98	2	9.01	6.87	7.94	1.513	19.06
	MILITARY	2	5.10	4.14	4.62	0.679	14.69	2	12.51	9.33	10.92	2.249	20.59
NO	IDLE	2	0.18	0.15	0.16	0.021	12.86	2	0.08	0.07	0.07	0.007	9.43
	INTERMED. 1	0						0					
	INTERMED. 2	0						0					
	NORMAL	2	3.52	3.08	3.30	0.311	9.43	2	7.39	5.84	6.61	1.096	16.57
	MILITARY	2	4.23	3.60	3.91	0.445	11.38	2	10.36	8.10	9.23	1.598	17.31
NO2	IDLE	2	1.44	1.32	1.38	0.085	6.15	2	0.69	0.59	0.64	0.071	11.05
	INTERMED. 1	0						0					
	INTERMED. 2	0						0					
	NORMAL	2	0.77	0.54	0.65	0.163	24.83	2	1.62	1.03	1.32	0.417	31.49
	MILITARY	2	0.88	0.55	0.71	0.233	32.64	2	2.15	1.23	1.69	0.651	38.49
SOX	IDLE	0						2	0.29	0.27	0.28	0.014	5.05
	INTERMED. 1	0						2	0.58	0.55	0.56	0.021	3.75
	INTERMED. 2	0						2	0.84	0.79	0.81	0.035	4.34
	NORMAL	0						2	1.26	1.14	1.20	0.085	7.07
	MILITARY	0						2	1.47	1.35	1.41	0.085	6.02

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SET 1492-005-1275

REPORT DATE 02/11/77
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : J69-P9 & P9B

TEST LOCATION : ANDREWS AFB

***** CATEGORY C TESTS ONLY *****

MEASURED FUEL FLOW & SMOKE NUMBER :

TEST MODE	MEAS. FUEL FLOW - #/HR NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	SMOKE NUMBER NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
IDLE	2	480	445	463	24.7	5.35	2	3.25	1.50	2.38	1.237	52.10
INTERMED. 1	2	975	925	950	35.4	3.72	0					
INTERMED. 2	2	1405	1320	1363	60.1	4.41	0					
NORMAL	2	2100	1900	2000	141.4	7.07	2	20.50	20.25	20.38	0.177	0.87
MILITARY	2	2450	2250	2350	141.4	6.02	2	22.25	22.25	22.25	0.000	0.00

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SET 1492-06 -2750

REPORT DATE 02/11/77
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : J79-15

TEST LOCATION : KELLY AFB

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***** CATEGORY A TESTS ONLY *****

EXHAUST MASS EMISSION INDICES :

PARAM	TEST MODE	# / 1000# FUEL NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	# / HR NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
THC	IDLE	1	14.39	14.39				1	15.98	15.98			
	INTERMED. 1	0						0					
	INTERMED. 2	0						0					
	NORMAL	1	0.26	0.26				1	1.33	1.33			
	MILITARY	1	0.19	0.19				1	1.69	1.69			
	MAX AB	1	1.84	1.84				1	60.56	60.56			
CO	IDLE	1	58.28	58.28				1	64.7	64.7			
	INTERMED. 1	0						0					
	INTERMED. 2	0						0					
	NORMAL	1	4.68	4.68				1	24.3	24.3			
	MILITARY	1	2.16	2.16				1	19.2	19.2			
	MAX AB	1	71.33	71.33				1	2344.3	2344.3			
NOX	IDLE	1	2.50	2.50				1	2.78	2.78			
	INTERMED. 1	0						0					
	INTERMED. 2	0						0					
	NORMAL	1	5.47	5.47				1	28.42	28.42			
	MILITARY	1	8.73	8.73				1	77.83	77.83			
	MAX AB	1	3.10	3.10				1	101.86	101.86			
NO	IDLE	1	1.04	1.04				1	1.16	1.16			
	INTERMED. 1	0						0					
	INTERMED. 2	0						0					
	NORMAL	1	4.98	4.98				1	25.92	25.92			
	MILITARY	1	7.96	7.96				1	70.88	70.88			
	MAX AB	1	2.18	2.18				1	71.74	71.74			
NO2	IDLE	1	1.46	1.46				1	1.62	1.62			
	INTERMED. 1	0						0					
	INTERMED. 2	0						0					
	NORMAL	1	0.48	0.48				1	2.50	2.50			
	MILITARY	1	0.78	0.78				1	6.94	6.94			
	MAX AB	1	0.92	0.92				1	30.12	30.12			
SOX	IDLE	0						1	0.67	0.67			
	INTERMED. 1	0						0					
	INTERMED. 2	0						0					
	NORMAL	0						1	3.12	3.12			
	MILITARY	0						1	5.34	5.34			
	MAX AB	0						1	19.70	19.70			

***** CATEGORY A TESTS ONLY *****

MEASURED FUEL FLOW & SMOKE NUMBER :

	TEST MODE	MEAS. FUEL FLOW - #/HR NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	SMOKE NUMBER NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
	IDLE	1	1110	1110				1	21.42	21.42			
	INTERMED. 1	0						0					
	INTERMED. 2	0						0					
	NORMAL	1	5200	5200				1	57.62	57.62			
	MILITARY	1	8910	8910				1	58.42	58.42			
	MAX AB	1	32864	32804				1	24.48	24.46			

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SET 1492-06 -2750

REPORT DATE 02/11/77
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : J79-15

TEST LOCATION : KELLY AFB

ENGINE 4, PAGE 1

***** CATEGORY B TESTS ONLY *****

EXHAUST MASS EMISSION INDICES :

PARAM	TEST MODE	# / 1000# FUEL NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	# / HR NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
THC	IDLE	5	12.43	5.68	9.99	2.767	27.69	5	14.42	6.39	11.36	3.214	28.29
	INTERMED. 1	5	5.75	1.58	3.29	1.660	50.44	5	9.15	2.32	5.04	2.697	53.47
	INTERMED. 2	5	0.84	0.08	0.28	0.319	113.87	5	6.16	0.63	2.06	2.332	112.97
	NORMAL	5	1.51	0.19	0.50	0.567	112.89	5	8.42	1.02	2.75	3.188	116.11
	MILITARY	5	0.68	0.06	0.23	0.259	111.55	5	6.06	0.49	2.06	2.311	112.09
	MAX AB	5	14.18	0.79	6.18	4.963	80.25	5	453.50	24.59	185.26	67.782	90.57
CO	IDLE	5	65.31	53.37	56.43	5.054	8.96	5	73.5	60.6	64.0	5.42	0.85
	INTERMED. 1	5	32.38	19.28	25.98	4.857	18.70	5	51.5	28.4	39.5	8.30	2.10
	INTERMED. 2	5	3.94	2.62	3.11	0.554	17.80	5	28.6	19.7	23.0	3.74	1.62
	NORMAL	5	5.37	3.98	4.49	0.588	13.10	5	28.0	21.1	24.2	3.00	1.24
	MILITARY	5	2.77	1.90	2.30	0.400	17.40	5	24.9	17.1	20.5	3.56	1.74
	MAX AB	5	68.39	38.46	50.47	11.312	22.19	5	2251.8	821.3	1487.5	539.88	3.63
NOX	IDLE	3	2.54	2.41	2.46	0.068	2.76	3	2.90	2.71	2.78	0.102	3.67
	INTERMED. 1	3	3.31	3.02	3.16	0.145	4.60	3	5.09	4.39	4.83	0.386	7.98
	INTERMED. 2	5	8.51	5.62	6.84	1.045	15.29	5	61.90	41.25	50.67	7.379	14.56
	NORMAL	5	6.56	4.70	5.75	0.801	13.94	5	34.71	26.13	30.96	3.776	12.21
	MILITARY	5	11.30	7.57	9.98	1.364	15.19	5	101.45	68.07	80.20	12.536	15.63
	MAX AB	5	4.60	2.89	3.41	0.713	20.91	5	113.93	76.57	95.20	13.410	14.09
NO	IDLE	5	1.58	0.73	1.09	0.336	30.87	5	1.77	0.83	1.23	0.368	29.86
	INTERMED. 1	5	2.27	1.41	2.01	0.345	17.17	5	3.49	2.06	3.06	0.559	18.28
	INTERMED. 2	5	7.76	4.79	6.13	1.059	17.29	5	56.43	35.17	45.42	7.547	16.62
	NORMAL	5	5.96	4.00	4.94	0.694	14.05	5	31.09	22.26	26.59	3.140	11.81
	MILITARY	5	10.43	6.55	8.12	1.413	17.40	5	93.65	58.18	72.53	12.948	17.85
	MAX AB	5	2.00	1.66	1.79	0.145	8.10	5	64.34	28.13	52.10	14.308	27.46
NO2	IDLE	3	1.39	0.84	1.17	0.291	24.87	3	1.58	0.94	1.32	0.336	25.49
	INTERMED. 1	3	1.11	0.84	1.00	0.140	14.06	3	1.76	1.23	1.53	0.272	17.77
	INTERMED. 2	5	0.87	0.49	0.71	0.129	18.15	5	6.08	3.71	5.26	0.907	17.25
	NORMAL	5	0.84	0.44	0.67	0.144	21.64	5	4.53	2.31	3.59	0.807	22.48
	MILITARY	5	1.11	0.63	0.86	0.170	19.80	5	9.89	5.67	7.68	1.500	19.54
	MAX AB	5	2.91	1.14	1.62	0.736	45.33	5	49.59	37.39	43.10	5.749	13.34
SOX	IDLE	0						5	0.46	0.22	0.32	0.127	40.19
	INTERMED. 1	0						5	0.61	0.29	0.42	0.159	37.59
	INTERMED. 2	0						5	3.03	1.45	2.09	0.853	40.88
	NORMAL	0						5	2.15	1.04	1.50	0.577	38.35
	MILITARY	0						5	3.59	1.77	2.49	0.973	39.03
	MAX AB	0						5	13.16	3.33	8.39	4.362	52.00

***** CATEGORY B TESTS ONLY *****

MEASURED FUEL FLOW & SMOKE NUMBER :

	TEST MODE	MEAS. FUEL FLOW - #/HR NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	SMOKE NUMBER NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
	IDLE	5	1160	1125	1135	15.4	1.36	5	23.82	15.65	21.22	3.610	17.01
	INTERMED. 1	5	1590	1455	1518	53.9	3.55	5	43.13	26.63	38.60	6.980	18.08
	INTERMED. 2	5	7570	7270	7418	125.7	1.69	5	64.25	57.90	61.70	2.946	4.77
	NORMAL	5	5565	5215	5397	146.7	2.72	5	62.75	55.75	59.63	3.288	5.51
	MILITARY	5	8980	8830	8923	65.5	0.73	5	61.75	59.86	60.71	0.810	1.33
	MAX AB	5	32924	16658	28997	6924.0	23.88	5	51.50	29.88	40.03	7.953	19.87

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SET 1492-06 -2750

REPORT DATE 02/11/77
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : J79-15

TEST LOCATION : KELLY AFB

ENGINE 4, PAGE 1

***** CATEGORY C TESTS ONLY *****

EXHAUST MASS EMISSION INDICES :

PARAM	TEST MODE	# / 1000# FUEL NO. OBS	# / 1000# FUEL MAX VALUE	# / 1000# FUEL MIN VALUE	# / 1000# FUEL MEAN	# / 1000# FUEL STND DEV	# / 1000# FUEL % COEF VAR	# / HR NO. OBS	# / HR MAX VALUE	# / HR MIN VALUE	# / HR MEAN	# / HR STND DEV	# / HR % COEF VAR
THC	IDLE	1	11.54	11.54				1	12.98	12.98			
	INTERMED. 1	0						0					
	INTERMED. 2	0						0					
	NORMAL	1	0.22	0.22				1	1.18	1.18			
	MILITARY	1	0.15	0.15				1	1.34	1.34			
	MAX AB	1	0.36	0.36				1	11.62	11.62			
CO	IDLE	1	49.25	49.25				1	55.4	55.4			
	INTERMED. 1	0						0					
	INTERMED. 2	0						0					
	NORMAL	1	3.83	3.83				1	20.3	20.3			
	MILITARY	1	1.91	1.91				1	17.2	17.2			
	MAX AB	1	34.10	34.10				1	1095.0	1095.0			
NOX	IDLE	1	2.18	2.18				1	2.46	2.46			
	INTERMED. 1	0						0					
	INTERMED. 2	0						0					
	NORMAL	1	5.16	5.16				1	27.36	27.36			
	MILITARY	1	8.36	8.36				1	75.05	75.05			
	MAX AB	1	2.86	2.86				1	91.75	91.75			
NO	IDLE	1	0.90	0.90				1	1.01	1.01			
	INTERMED. 1	0						0					
	INTERMED. 2	0						0					
	NORMAL	1	4.70	4.70				1	24.90	24.90			
	MILITARY	1	7.65	7.65				1	68.69	68.69			
	MAX AB	1	2.09	2.09				1	67.20	67.20			
NO2	IDLE	1	1.29	1.29				1	1.45	1.45			
	INTERMED. 1	0						0					
	INTERMED. 2	0						0					
	NORMAL	1	0.46	0.46				1	2.46	2.46			
	MILITARY	1	0.71	0.71				1	6.36	6.36			
	MAX AB	1	0.76	0.76				1	24.55	24.55			
SOX	IDLE	0						1	0.45	0.45			
	INTERMED. 1	0						0					
	INTERMED. 2	0						0					
	NORMAL	0						1	2.12	2.12			
	MILITARY	0						1	3.59	3.59			
	MAX AB	0						1	12.83	12.83			

***** CATEGORY C TESTS ONLY *****

MEASURED FUEL FLOW & SMOKE NUMBER :

	TEST MODE	MEAS. FUEL FLOW - #/HR NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	SMOKE NUMBER NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
	IDLE	1	1125	1125				1	25.88	25.88			
	INTERMED. 1	0						0					
	INTERMED. 2	0						0					
	NORMAL	1	5300	5300				1	65.00	65.00			
	MILITARY	1	8980	8980				1	62.63	62.63			
	MAX AB	1	32113	32113				1	4.75	4.75			

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SET 1492-006-1275

REPORT DATE 02/11/77
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : T56-A7B

TEST LOCATION : KELLY,AFB

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***** CATEGORY A TESTS ONLY *****

EXHAUST MASS EMISSION INDICES :

		* # / 1000# FUEL *					* # / HR *				
PARAM	TEST MODE	NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
HC	LO GRND.IDLE	2	23.34	17.21	20.27	4.335	21.38	2	13.30	10.07	11.68	2.284	19.55
	HI GRND.IDLE	2	13.70	1.50	6.10	6.505	106.65	2	7.44	1.08	4.26	4.497	105.57
	APPROACH	0						0					
	CRUISE	0						0					
	NORMAL	2	5.37	0.55	2.96	3.408	115.14	2	10.21	0.98	5.59	6.527	116.65
	MILITARY	2	4.27	0.34	2.30	2.779	120.56	2	8.58	0.64	4.61	5.614	121.79
CO	LO GRND.IDLE	2	33.26	30.69	31.97	1.817	5.68	2	19.0	18.0	18.5	0.71	0.38
	HI GRND.IDLE	2	8.62	7.71	8.16	0.643	7.88	2	6.0	5.5	5.8	0.35	0.61
	APPROACH	0						0					
	CRUISE	0						0					
	NORMAL	2	2.57	2.48	2.52	0.064	2.52	2	4.9	4.4	4.6	0.35	0.76
	MILITARY	2	2.22	2.15	2.18	0.049	2.27	2	4.5	4.1	4.3	0.28	0.66
NOX	LO GRND.IDLE	2	3.48	2.71	3.09	0.544	17.59	2	2.04	1.55	1.79	0.346	19.30
	HI GRND.IDLE	2	6.68	6.67	6.67	0.007	0.11	2	4.81	4.64	4.72	0.120	2.54
	APPROACH	0						0					
	CRUISE	0						0					
	NORMAL	2	9.58	9.98	9.27	0.410	4.42	2	18.17	15.03	17.10	1.513	8.85
	MILITARY	2	9.57	9.19	9.38	0.269	2.86	2	19.24	17.41	18.32	1.294	7.06
NO	LO GRND.IDLE	2	1.34	1.26	1.30	0.057	4.35	2	0.76	0.74	0.75	0.014	1.89
	HI GRND.IDLE	1	5.88	5.88				1	4.23	4.23			
	APPROACH	0						0					
	CRUISE	0						0					
	NORMAL	1	8.34	8.34				1	14.88	14.88			
	MILITARY	1	8.39	8.39				1	15.91	15.91			
NO2	LO GRND.IDLE	2	2.22	1.38	1.80	0.594	33.00	2	1.30	0.79	1.04	0.361	34.51
	HI GRND.IDLE	1	0.80	0.80				1	0.56	0.56			
	APPROACH	0						0					
	CRUISE	0						0					
	NORMAL	1	0.65	0.65				1	1.15	1.15			
	MILITARY	1	0.80	0.80				1	1.51	1.51			
SO2	LO GRND.IDLE	0						2	0.23	0.23	0.23	0.000	0.00
	HI GRND.IDLE	0						2	0.29	0.28	0.28	0.007	2.48
	APPROACH	0						0					
	CRUISE	0						0					
	NORMAL	0						2	0.76	0.71	0.73	0.035	4.81
	MILITARY	0						2	0.80	0.76	0.78	0.028	3.63

***** CATEGORY A TESTS ONLY *****

MEASURED FUEL FLOW & SMOKE NUMBER :

	TEST MODE	MEAS. FUEL FLOW - #/HR NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	SMOKE NUMBER NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
	LO GRND.IDLE	2	585	570	578	10.6	1.84	2	23.58	23.25	23.41	0.233	1.00
	HI GRND.IDLE	2	720	695	708	17.7	2.50	2	30.09	30.08	30.08	0.007	0.02
	APPROACH	0						0					
	CRUISE	0						0					
	NORMAL	2	1900	1785	1843	81.3	4.41	2	36.42	36.08	36.25	0.240	0.66
	MILITARY	2	2010	1895	1953	81.3	4.16	2	37.25	35.58	36.41	1.181	3.24

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SET 1492-006-1275

REPORT DATE 02/11/77
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : TF30-A78

TEST LOCATION : KELLY,AFB

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***** CATEGORY B TESTS ONLY *****

EXHAUST MASS EMISSION INDICES :

PARAM	TEST MODE	# / 1000# FUEL NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	# / HR NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
THC	LO GRND.IDLE	7	25.31	16.40	21.20	3.497	16.50	7	14.67	10.17	12.65	2.073	16.39
	HI GRND.IDLE	7	13.64	1.51	7.06	4.543	64.35	7	9.76	1.14	5.12	3.200	62.53
	APPROACH	7	8.48	0.63	4.80	3.180	66.23	7	6.78	0.54	3.94	2.566	65.11
	CRUISE	7	6.40	0.21	3.16	2.487	78.59	7	9.63	0.32	4.77	3.742	78.53
	NORMAL	7	5.37	0.11	2.29	2.252	98.47	7	9.97	0.20	4.26	4.195	98.47
	MILITARY	7	5.24	0.10	2.24	2.332	104.32	7	10.34	0.20	4.42	4.607	104.30
CO	LO GRND.IDLE	7	32.72	30.47	31.72	0.764	2.41	7	20.6	17.7	19.0	1.10	0.58
	HI GRND.IDLE	7	11.84	5.97	8.07	1.931	23.94	7	9.0	4.3	5.9	1.58	2.66
	APPROACH	7	8.09	4.56	6.08	1.167	19.21	7	6.8	3.7	5.0	1.03	2.05
	CRUISE	7	5.59	2.40	3.20	1.080	33.70	7	8.3	3.5	4.8	1.59	3.30
	NORMAL	7	3.00	1.73	2.17	0.399	18.24	7	5.4	3.1	4.1	0.71	1.74
	MILITARY	7	2.37	1.58	1.99	0.251	12.68	7	4.5	3.1	3.8	0.44	1.15
NOX	LO GRND.IDLE	7	4.47	3.56	3.90	0.327	8.38	7	2.65	2.06	2.33	0.217	9.32
	HI GRND.IDLE	7	8.86	6.39	7.08	0.891	12.58	7	6.70	4.60	5.19	0.722	13.91
	APPROACH	7	7.01	5.98	6.46	0.409	6.33	7	5.82	4.96	5.34	0.334	6.26
	CRUISE	7	9.60	7.28	8.60	0.776	9.02	7	14.50	11.32	12.93	1.095	8.47
	NORMAL	7	9.91	8.18	9.12	0.787	8.63	7	18.47	14.99	16.90	1.410	8.35
	MILITARY	7	10.07	8.43	9.22	0.680	7.38	7	19.76	16.51	18.16	1.234	6.79
NO	LO GRND.IDLE	7	1.93	0.29	1.16	0.522	44.62	7	1.22	0.17	0.70	0.328	46.70
	HI GRND.IDLE	6	7.35	4.59	5.78	0.932	16.13	6	5.56	3.26	4.25	0.753	17.74
	APPROACH	7	6.23	4.41	5.48	0.594	10.84	7	5.05	3.61	4.53	0.486	10.71
	CRUISE	7	8.76	6.55	7.74	0.747	9.66	7	13.23	9.86	11.64	1.067	9.17
	NORMAL	7	9.52	7.03	8.32	0.911	10.94	7	17.44	13.05	15.42	1.605	10.41
	MILITARY	7	9.56	6.99	8.26	0.931	11.27	7	18.83	13.81	16.26	1.776	10.91
NO2	LO GRND.IDLE	7	3.59	1.93	2.74	0.572	20.89	7	2.08	1.13	1.63	0.310	19.06
	HI GRND.IDLE	6	1.97	0.93	1.37	0.369	26.99	6	1.41	0.67	1.00	0.257	25.69
	APPROACH	7	1.69	0.59	0.96	0.403	41.16	7	1.36	0.31	0.81	0.329	40.65
	CRUISE	7	1.60	0.28	0.86	0.470	54.68	7	2.41	0.44	1.29	0.705	54.54
	NORMAL	7	1.52	0.43	0.82	0.449	55.08	7	2.82	0.80	1.51	0.841	55.65
	MILITARY	7	1.85	0.47	0.96	0.609	63.20	7	3.64	0.95	1.89	1.203	63.48
SOX	LO GRND.IDLE	0						7	0.25	0.23	0.24	0.011	4.48
	HI GRND.IDLE	0						7	0.30	0.26	0.29	0.008	2.58
	APPROACH	0						7	0.34	0.32	0.33	0.010	3.03
	CRUISE	0						7	0.62	0.59	0.60	0.010	1.67
	NORMAL	0						7	0.76	0.72	0.74	0.013	1.81
	MILITARY	0						7	0.81	0.77	0.79	0.013	1.63

***** CATEGORY B TESTS ONLY *****

MEASURED FUEL FLOW & SMOKE NUMBER :

	TEST MODE	MEAS. FUEL FLOW - #/HR					SMOKE NUMBER				
		NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
	LO GRND.IDLE	7	630	570	597	25.1	4.21	7	34.00	13.75	23.18	7.534	32.51
	HI GRND.IDLE	7	760	695	732	25.6	3.50	7	33.75	21.00	27.30	4.466	16.36
	APPROACH	7	854	800	827	22.6	2.73	7	36.13	26.00	30.36	3.676	12.11
	CRUISE	7	1556	1470	1504	27.7	1.84	7	42.65	32.75	35.81	3.393	9.48
	NORMAL	7	1900	1800	1853	32.0	1.73	7	40.13	28.50	36.14	4.629	12.81
	MILITARY	7	2036	1920	1972	37.0	1.88	7	44.63	28.25	37.66	6.141	16.31

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SET 1492-006-1275

REPORT DATE 02/11/77
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : TS6-A7B

TEST LOCATION : KELLY,AFB

ENGINE 5, PAGE 1

***** CATEGORY C TESTS ONLY *****

EXHAUST MASS EMISSION INDICES :

PARAM	TEST MODE	# / 1000# FUEL NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	# / HR NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
THC	LO GRND.IDLE	1	18.88	18.88				1	10.86	10.86			
	HI GRND.IDLE	1	1.62	1.62				1	1.17	1.17			
	APPROACH	0						0					
	CRUISE	0						0					
	NORMAL	1	0.68	0.68				1	1.25	1.25			
	MILITARY	1	0.36	0.36				1	0.71	0.71			
CO	LO GRND.IDLE	1	31.70	31.70				1	18.2	18.2			
	HI GRND.IDLE	1	5.97	5.97				1	4.3	4.3			
	APPROACH	0						0					
	CRUISE	0						0					
	NORMAL	1	1.73	1.73				1	3.2	3.2			
	MILITARY	1	1.55	1.55				1	3.0	3.0			
NOX	LO GRND.IDLE	1	3.51	3.51				1	2.02	2.02			
	HI GRND.IDLE	1	6.38	6.38				1	4.59	4.59			
	APPROACH	0						0					
	CRUISE	0						0					
	NORMAL	1	7.92	7.92				1	14.46	14.46			
	MILITARY	1	8.15	8.15				1	15.82	15.82			
NO	LO GRND.IDLE	1	0.77	0.77				1	0.44	0.44			
	HI GRND.IDLE	1	5.39	5.39				1	3.88	3.88			
	APPROACH	0						0					
	CRUISE	0						0					
	NORMAL	1	7.33	7.33				1	13.38	13.38			
	MILITARY	1	7.40	7.40				1	14.35	14.35			
NO2	LO GRND.IDLE	1	2.74	2.74				1	1.57	1.57			
	HI GRND.IDLE	1	0.99	0.99				1	0.71	0.71			
	APPROACH	0						0					
	CRUISE	0						0					
	NORMAL	1	0.59	0.59				1	1.08	1.08			
	MILITARY	1	0.76	0.76				1	1.47	1.47			
SOX	LO GRND.IDLE	0						1	0.23	0.23			
	HI GRND.IDLE	0						1	0.29	0.29			
	APPROACH	0						0					
	CRUISE	0						0					
	NORMAL	0						1	0.73	0.73			
	MILITARY	0						1	0.78	0.78			

***** CATEGORY C TESTS ONLY *****

MEASURED FUEL FLOW & SMOKE NUMBER :

		MEAS. FUEL FLOW - #/HR					SMOKE NUMBER					
	TEST MODE	NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
	LO GRND.IDLE	1	575	575				1	20.25	20.25			
	HI GRND.IDLE	1	720	720				1	26.00	26.00			
	APPROACH	0						0					
	CRUISE	0						0					
	NORMAL	1	1825	1825				1	43.50	43.50			
	MILITARY	1	1940	1940				1	45.25	45.25			

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SET 1492-006-1275

REPORT DATE 02/11/77
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : TF39

TEST LOCATION : KELLY,AFB

ENGINE 6, PAGE 1

***** CATEGORY A TESTS ONLY *****

EXHAUST MASS EMISSION INDICES :

PARAM	TEST MODE	# / 1000# FUEL NO. OBS	# / 1000# FUEL MAX VALUE	# / 1000# FUEL MIN VALUE	# / 1000# FUEL MEAN	# / 1000# FUEL STND DEV	# / 1000# FUEL % COEF VAR	# / HR NO. OBS	# / HR MAX VALUE	# / HR MIN VALUE	# / HR MEAN	# / HR STND DEV	# / HR % COEF VAR
THC	IDLE	4	28.56	19.40	22.98	3.932	17.11	4	33.65	21.85	26.12	5.173	19.80
	INTERMED. 1	4	0.34	0.08	0.26	0.122	46.59	4	2.95	0.69	2.33	1.093	46.96
	NORMAL	4	0.43	0.08	0.21	0.155	71.91	4	4.85	0.99	2.51	1.702	67.73
	MILITARY	4	0.34	0.07	0.18	0.124	67.30	4	4.24	0.89	2.31	1.550	67.04
	TAKE-OFF	2	0.26	0.11	0.18	0.106	57.33	2	3.46	1.16	2.31	1.626	70.40
CO	IDLE	4	72.83	60.94	66.73	4.984	7.47	4	85.8	68.6	75.7	7.23	0.96
	INTERMED. 1	4	0.85	0.73	0.80	0.056	7.00	4	7.6	6.4	7.1	0.59	0.82
	NORMAL	4	0.81	0.61	0.68	0.088	12.96	4	9.9	7.3	8.2	1.20	1.46
	MILITARY	4	0.81	0.57	0.68	0.098	14.42	4	10.2	7.2	8.6	1.24	1.44
	TAKE-OFF	2	0.66	0.52	0.59	0.099	16.78	2	7.0	6.9	6.9	0.07	0.10
NOX	IDLE	4	3.59	2.41	2.95	0.525	17.82	4	4.04	2.72	3.34	0.628	18.79
	INTERMED. 1	4	22.88	17.02	20.60	2.563	12.44	4	203.74	151.64	183.57	23.342	12.72
	NORMAL	4	31.49	25.57	28.36	3.037	10.71	4	369.58	269.91	341.79	46.172	13.51
	MILITARY	4	30.69	27.16	28.52	1.554	5.45	4	393.96	339.93	361.99	23.108	6.38
	TAKE-OFF	2	30.50	26.60	28.55	2.758	9.66	2	408.19	277.52	342.85	92.398	26.95
NO	IDLE	4	0.21	0.09	0.15	0.059	39.25	4	0.24	0.11	0.17	0.067	38.85
	INTERMED. 1	4	20.80	14.95	18.04	2.435	13.50	4	185.21	133.21	160.76	22.030	13.70
	NORMAL	4	28.36	22.26	25.21	3.037	12.05	4	345.11	260.74	303.71	43.463	14.31
	MILITARY	4	28.82	22.97	26.36	2.677	10.16	4	369.95	292.35	334.51	35.457	10.60
	TAKE-OFF	2	29.56	24.24	26.89	3.755	13.96	2	395.57	252.85	324.21	0.916	31.13
NO2	IDLE	4	3.40	2.31	2.79	0.478	17.09	4	3.82	2.62	3.17	0.562	17.73
	INTERMED. 1	4	3.17	2.07	2.56	0.569	22.24	4	28.61	18.43	22.81	5.144	22.55
	NORMAL	4	4.25	2.08	3.15	0.999	31.71	4	52.63	25.29	38.07	12.977	34.08
	MILITARY	4	4.71	0.39	2.16	1.821	84.22	4	59.99	4.94	27.48	23.232	84.54
	TAKE-OFF	2	2.36	0.94	1.65	1.004	60.85	2	24.67	12.62	18.64	8.521	45.70
SO2	IDLE	0						4	1.13	0.67	0.90	0.189	20.94
	INTERMED. 1	0						4	8.90	5.41	7.11	1.426	20.04
	NORMAL	0						4	12.21	7.42	9.60	1.989	20.71
	MILITARY	0						4	12.71	7.69	10.13	2.052	20.25
	TAKE-OFF	0						2	10.70	8.34	9.52	1.669	17.53

***** CATEGORY A TESTS ONLY *****

MEASURED FUEL FLOW & SMOKE NUMBER :

	TEST MODE	MEAS. FUEL FLOW - #/HR NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	SMOKE NUMBER NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
	IDLE	4	1178	1099	1134	32.8	2.90	2	1.93	0.77	1.35	0.820	60.76
	INTERMED. 1	4	9030	8790	8909	98.0	1.10	2	7.93	5.85	6.89	1.471	21.35
	NORMAL	4	12370	11340	12025	464.5	3.86	2	7.36	3.93	5.64	2.425	42.97
	MILITARY	4	12835	12515	12688	133.0	1.05	2	5.14	4.86	5.00	0.198	3.96
	TAKE-OFF	2	13385	10432	11909	2088.1	17.53	1	4.14	4.14			

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SET 1442-0006-1275

REPORT DATE 01/22/76
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : TF30

TEST LOCATION : KELLY.AFB

ENGINE 6. PAGE 1

EXHAUST MASS EMISSION INDICES :

PARAM	TEST MODE	NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
		* # / 1000 # FUEL						* # / HR					
THC	IDLE	4	28.56	19.46	22.90	3.933	17.11	4	33.65	21.85	26.12	5.173	19.80
	INTERMED. 1	4	0.34	0.85	0.26	0.122	46.59	4	2.95	0.69	2.33	1.093	46.96
	NORMAL	4	0.43	0.34	0.21	0.155	71.91	4	4.85	0.99	2.51	1.702	67.73
	MILITARY	4	0.34	0.07	0.18	0.124	67.38	4	4.24	0.89	2.31	1.550	67.04
	TAKE-OFF	2	0.26	0.11	0.19	0.105	57.33	2	3.46	1.15	2.31	1.626	70.40
CO	IDLE	4	72.83	58.94	66.73	4.984	7.47	4	85.8	68.6	75.7	7.23	8.96
	INTERMED. 1	4	0.85	0.79	0.86	0.056	7.33	4	7.6	6.4	7.1	0.59	8.82
	NORMAL	4	0.81	0.61	0.68	0.085	12.96	4	9.9	7.3	8.2	1.20	1.46
	MILITARY	4	0.81	0.57	0.68	0.099	14.42	4	10.2	7.2	8.6	1.24	1.44
	TAKE-OFF	2	0.66	0.52	0.59	0.097	16.78	2	7.8	6.9	6.9	0.07	0.10
NOx	IDLE	4	3.59	2.41	2.93	0.525	17.82	4	4.04	2.72	3.34	0.628	18.79
	INTERMED. 1	4	22.84	17.82	20.58	2.551	12.39	4	183.74	151.64	183.57	23.342	12.72
	NORMAL	4	31.49	25.57	28.35	3.037	10.71	4	389.58	289.91	341.79	46.172	13.51
	MILITARY	4	30.69	27.15	28.32	1.554	5.45	4	393.96	339.93	361.99	23.108	6.38
	TAKE-OFF	2	30.50	26.65	28.55	2.754	9.64	2	488.19	277.52	342.85	92.398	26.95
NO	IDLE	4	0.21	0.09	0.13	0.052	39.25	4	0.24	0.11	0.17	0.067	38.85
	INTERMED. 1	4	20.88	19.95	18.04	2.435	13.54	4	145.21	133.21	168.76	22.838	13.78
	NORMAL	4	24.36	22.25	25.21	3.037	12.45	4	245.11	208.74	303.71	43.463	14.31
	MILITARY	4	24.82	22.37	25.39	2.577	14.15	4	259.95	292.35	334.51	35.457	10.62
	TAKE-OFF	2	24.55	24.24	25.89	3.756	13.96	2	295.57	252.85	324.21	8.918	31.13
NO2	IDLE	4	3.48	2.31	2.79	0.478	17.89	4	3.82	2.62	3.17	0.562	17.73
	INTERMED. 1	4	3.17	2.37	2.50	0.569	22.34	4	28.61	18.43	22.81	5.144	22.55
	NORMAL	4	4.25	2.88	3.13	0.433	31.71	4	52.63	25.29	38.87	12.977	34.88
	MILITARY	4	4.71	0.34	2.15	1.821	84.33	4	54.39	4.94	27.48	23.232	84.54
	TAKE-OFF	2	2.36	0.94	1.65	1.006	60.85	2	24.67	12.62	18.64	8.521	45.70
SOx	IDLE	0											
	INTERMED. 1	0						4	1.13	0.67	0.98	0.189	20.34
	NORMAL	0						4	8.98	5.41	7.11	1.426	20.04
	MILITARY	0						4	12.21	7.42	9.68	1.989	20.71
	TAKE-OFF	0						4	12.71	7.69	10.13	2.852	28.25
								2	10.70	8.34	9.52	1.669	17.53

SCOTT ENVIRONMENTAL TECHNOLOGY INC. SET 1642-586-1275 REPORT DATE 01/22/76
USAF TURBINE ENGINE EMISSIONS INVENTORY USAF CONTRACT F29601-75-C-0044
ENGINE MODEL SUMMARY REPORT

ENGINE MODEL : TF30 TEST LOCATION : KELLY-AFB ENGINE 6, PASS 2

MEASURED FUEL FLOW & SMOKE NUMBER :

		---------- MEAS. FUEL FLOW - #/HR ----------						*---------- SMOKE NUMBER ----------*					
	TEST MODE	NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
	IDLE	4	1178	1042	1134	32.4	2.90	2	1.93	0.77	1.35	0.820	60.75
	INTERMED. 1	4	9030	8792	8987	98.1	1.10	2	7.93	5.85	6.89	1.471	21.35
	NORMAL	4	12370	11340	12023	464.3	3.86	2	7.36	3.93	5.64	2.425	42.97
	MILITARY	4	12835	12515	12688	193.2	1.85	2	5.14	4.85	5.00	0.198	3.95
	TAKE-OFF	2	13285	10432	11907	2083.1	17.53	1	4.14	4.14			

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SET 1492-0MA-0876

REPORT DATE 08/20/76
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : J57-P21

TEST LOCATION : TINKER AFB

ENGINE 17, PAGE 1

*** CATEGORY A TESTS ONLY ***

EXHAUST MASS EMISSION INDICES :

PARAM	TEST MODE	# / 1000# FUEL NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	# / HR NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
THC	IDLE	1	65.22	65.22				1	67.76	67.76			
	INTERMED. 1	0						0					
	INTERMED. 2	1	0.27	0.27				1	1.56	1.56			
	MILITARY	1	0.08	0.08				1	0.52	0.52			
CO	IDLE	1	72.67	72.67				1	75.7	75.7			
	INTERMED. 1	0						0					
	INTERMED. 2	1	3.49	3.49				1	20.4	20.4			
	MILITARY	1	2.02	2.02				1	15.1	15.1			
NOx	IDLE	1	2.41	2.41				1	2.51	2.51			
	INTERMED. 1	0						0					
	INTERMED. 2	1	5.25	5.25				1	48.45	48.45			
	MILITARY	1	9.78	9.78				1	73.81	73.81			
NO	IDLE	1	0.23	0.23				1	0.24	0.24			
	INTERMED. 1	0						0					
	INTERMED. 2	1	5.53	5.53				1	38.68	38.68			
	MILITARY	1	8.15	8.15				1	54.87	54.87			
NO2	IDLE	1	2.18	2.18				1	2.27	2.27			
	INTERMED. 1	0						0					
	INTERMED. 2	1	1.58	1.58				1	9.86	9.86			
	MILITARY	1	1.63	1.63				1	12.14	12.14			
SOX	IDLE	0						1	0.83	0.83			
	INTERMED. 1	0						0					
	INTERMED. 2	0						1	6.59	6.59			
	MILITARY	0						1	5.97	5.97			

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SET 1492-008-8876

REPORT DATE 08/20/76
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : JS7-P21A

TEST LOCATION : TINKER AFB

ENGINE 17, PAGE 2

*** CATEGORY A TESTS ONLY ***

MEASURED FUEL FLOW & SMOKE NUMBER :

	TEST MODE	MEAS. FUEL FLOW - #/HR NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	SMOKE NUMBER NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
	IDLE	1	1042	1042				1	8.75	8.75			
	INTERMED. 1	0						0					
	INTERMED. 2	1	5864	5864				1	59.92	59.92			
	MILITARY	1	7466	7466				1	61.63	61.63			

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SET 1492-083-0876

REPORT DATE 08/19/76
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : J57-P21A

TEST LOCATION : TINKER AFB

ENGINE 17. PAGE 1

*** CATEGORY B TESTS ONLY ***

EXHAUST MASS EMISSION INDICES :

PARAM	TEST MODE	# / 1000# FUEL NO. OBS	# / 1000# FUEL MAX VALUE	# / 1000# FUEL MIN VALUE	# / 1000# FUEL MEAN	# / 1000# FUEL STND DEV	# / 1000# FUEL % COEF VAR	# / HR NO. OBS	# / HR MAX VALUE	# / HR MIN VALUE	# / HR MEAN	# / HR STND DEV	# / HR % COEF VAR
THC	IDLE	3	55.29	52.14	53.44	1.647	3.08	3	59.66	49.54	56.19	5.764	10.25
	INTERMED. 1	3	1.37	0.36	0.71	0.564	79.88	3	7.44	2.14	3.92	3.046	77.63
	INTERMED. 2	3	0.75	0.24	0.42	0.286	68.14	3	4.73	1.66	2.69	1.770	65.87
	MILITARY	3	0.57	0.35	0.45	0.111	24.44	3	4.45	2.90	3.51	0.824	23.45
CO	IDLE	3	71.75	69.82	70.83	1.495	2.13	3	77.9	68.2	73.5	4.92	6.67
	INTERMED. 1	3	4.44	3.27	3.95	0.586	15.21	3	23.7	19.6	21.4	2.11	9.99
	INTERMED. 2	3	3.33	2.38	2.73	0.520	19.01	3	20.2	15.1	17.5	2.56	1.46
	MILITARY	3	2.19	1.67	1.91	0.313	16.44	3	16.1	12.2	14.8	2.22	1.51
NOX	IDLE	3	2.26	2.19	2.23	0.036	1.62	3	2.54	2.12	2.34	0.211	9.00
	INTERMED. 1	3	7.63	7.07	7.26	0.323	4.46	3	45.91	37.76	40.65	4.563	11.22
	INTERMED. 2	3	8.72	7.73	8.32	0.523	6.29	3	58.23	46.98	53.76	6.631	12.33
	MILITARY	3	10.41	9.07	9.94	0.754	7.59	3	85.31	66.32	77.24	9.811	12.70
NO	IDLE	3	1.00	0.47	0.76	0.307	40.53	3	1.02	0.53	0.78	0.245	31.55
	INTERMED. 1	3	6.59	5.84	6.13	0.401	6.53	3	39.65	31.17	34.39	4.593	13.36
	INTERMED. 2	3	7.58	6.57	7.14	0.516	7.23	3	52.32	39.93	46.12	6.195	13.43
	MILITARY	3	9.00	7.84	8.58	0.643	7.49	3	73.72	57.36	66.68	8.416	12.62
NO2	IDLE	3	1.74	1.14	1.47	0.315	21.38	3	2.01	1.13	1.57	0.455	29.07
	INTERMED. 1	3	1.21	1.04	1.12	0.057	5.05	3	5.59	5.03	5.26	0.338	5.27
	INTERMED. 2	3	1.20	1.15	1.19	0.061	5.11	3	7.98	7.05	7.65	0.518	6.77
	MILITARY	3	1.44	1.23	1.35	0.114	8.35	3	11.59	8.96	10.56	1.403	13.29
SOX	IDLE	0						3	0.90	0.76	0.84	0.072	8.58
	INTERMED. 1	0						3	4.81	4.27	4.47	0.296	6.62
	INTERMED. 2	0						3	5.52	4.86	5.15	0.337	6.55
	MILITARY	0						3	6.55	5.85	6.20	0.350	5.65

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SET 1492-08-0876

REPORT DATE 08/19/76
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : J57-P21A

TEST LOCATION : TINKER AFB

ENGINE 17, PAGE 2

*** CATEGORY A TESTS ONLY ***

MEASURED FUEL FLOW & SMOKE NUMBER :

	TEST MODE	MEAS. FUEL FLOW - #/HR NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	SMOKE NUMBER NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
	IDLE	3	1123	952	1051	89.7	8.55	3	14.00	11.00	12.17	1.607	13.21
	INTERMED. 1	3	5814	5340	5590	369.2	6.60	3	59.50	56.00	58.67	2.363	4.03
	INTERMED. 2	3	6484	6075	6442	422.7	6.56	3	62.00	58.00	60.50	2.179	3.60
	MILITARY	3	8143	7316	7752	438.5	5.66	3	62.50	58.00	61.00	2.598	4.26

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SET 1492-004-0876

REPORT DATE 08/20/76
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : TF30-P7

TEST LOCATION : TINKER AFB

ENGINE 16. PAGE 1

*** CATEGORY A TESTS ONLY ***

EXHAUST MASS EMISSION INDICES :

PARAM	TEST MODE	# / 1000# FUEL NO. OBS	# / 1000# FUEL MAX VALUE	# / 1000# FUEL MIN VALUE	# / 1000# FUEL MEAN	# / 1000# FUEL STND DEV	# / 1000# FUEL % COEF VAR	# / HR NO. OBS	# / HR MAX VALUE	# / HR MIN VALUE	# / HR MEAN	# / HR STND DEV	# / HR % COEF VAR
THC	IDLE	1	38.94	38.94				1	28.16	28.16			
	INTERMED. 1	0						0					
	INTERMED. 2	1	0.15	0.15				1	0.83	0.83			
	MILITARY	1	0.09	0.09				1	0.58	0.58			
CO	IDLE	1	53.36	53.36				1	48.6	48.6			
	INTERMED. 1	0						0					
	INTERMED. 2	1	1.11	1.11				1	6.1	6.1			
	MILITARY	1	0.72	0.72				1	5.0	5.0			
NOx	IDLE	1	3.19	3.19				1	2.91	2.91			
	INTERMED. 1	0						0					
	INTERMED. 2	1	15.26	15.26				1	83.54	83.54			
	MILITARY	1	28.95	28.95				1	146.09	146.09			
NO	IDLE	1	0.27	0.27				1	0.24	0.24			
	INTERMED. 1	0						0					
	INTERMED. 2	1	13.48	13.48				1	73.98	73.98			
	MILITARY	1	18.54	18.54				1	129.25	129.25			
NO2	IDLE	1	3.42	3.42				1	3.12	3.12			
	INTERMED. 1	0						0					
	INTERMED. 2	1	1.78	1.78				1	9.74	9.74			
	MILITARY	1	2.41	2.41				1	16.84	16.84			
SOx	IDLE	0						1	0.73	0.73			
	INTERMED. 1	0						0					
	INTERMED. 2	0						1	4.38	4.38			
	MILITARY	0						1	5.57	5.57			

SCOTT ENVIRONMENTAL TECHNOLOGY INC. SET 1492-DAA-8876 REPORT DATE 08/20/76
USAF TURBINE ENGINE EMISSIONS INVENTORY USAF CONTRACT F29601-75-C-0046
ENGINE MODEL SUMMARY REPORT

ENGINE MODEL : TF30-P7 TEST LOCATION : TINKER AFB ENGINE 16, PAGE 2

*** CATEGORY A TESTS ONLY ***

MEASURED FUEL FLOW & SMOKE NUMBER :

	TEST MODE	MEAS. FUEL FLOW - #/HR NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	SMOKE NUMBER NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
	IDLE	1	918	918				1	1.03	1.03			
	INTERMED. 1	0						0					
	INTERMED. 2	1	5458	5458				1	29.17	29.17			
	MILITARY	1	5973	5973				1	27.63	27.63			

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SFT 1442-003-0876

REPORT DATE 08/19/76
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : TF33-P7

TEST LOCATION : TINKER AFB

ENGINE 16, PAGE 1

*** CATEGORY B TESTS ONLY ***

EXHAUST MASS EMISSION INDICES :

PARAM	TEST MODE	# / 1000# FUEL NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	# / HR NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
THC	IDLE	3	34.63	24.87	29.74	4.888	16.41	3	31.03	25.17	27.17	3.341	12.29
	INTERMED. 1	3	12.22	8.19	9.85	2.092	21.13	3	58.55	38.87	46.88	10.336	22.05
	INTERMED. 2	3	14.55	8.23	11.34	3.164	27.89	3	80.55	44.04	61.42	18.317	29.82
	MILITARY	3	22.66	8.51	13.74	7.761	56.47	3	159.15	59.73	95.32	55.488	58.12
CO	IDLE	3	57.54	43.59	52.58	7.487	14.85	3	51.6	44.1	48.8	3.76	8.78
	INTERMED. 1	3	1.78	1.67	1.68	0.015	0.91	3	8.1	7.9	8.0	0.12	0.14
	INTERMED. 2	3	1.38	1.15	1.24	0.079	6.28	3	7.2	6.2	6.7	0.58	8.75
	MILITARY	3	1.14	0.76	0.91	0.237	26.13	3	8.3	5.1	6.3	1.74	2.77
NOx	IDLE	3	3.04	2.56	2.77	0.244	8.81	3	3.07	2.18	2.56	0.458	17.85
	INTERMED. 1	3	11.43	11.21	11.33	0.139	1.22	3	55.41	52.58	53.69	1.268	2.35
	INTERMED. 2	3	13.75	13.11	13.47	0.344	2.57	3	75.22	70.35	72.47	3.254	4.49
	MILITARY	3	18.45	17.88	17.98	0.745	4.13	3	124.53	113.39	123.16	8.606	6.99
NO	IDLE	3	0.47	0.25	0.33	0.118	31.64	3	0.47	0.23	0.32	0.131	40.86
	INTERMED. 1	3	10.25	6.87	9.06	1.939	20.96	3	49.08	32.18	43.08	9.392	21.84
	INTERMED. 2	3	12.52	11.76	12.11	0.384	3.17	3	69.38	63.87	65.61	3.272	4.99
	MILITARY	3	17.18	15.81	16.46	0.565	3.42	3	120.12	105.45	113.78	7.503	6.60
NO2	IDLE	3	2.57	2.25	2.44	0.156	6.4.	3	2.68	1.91	2.24	0.346	15.45
	INTERMED. 1	3	0.38	1.23	2.27	1.744	76.97	3	28.32	5.84	18.78	8.334	77.91
	INTERMED. 2	3	1.35	1.28	1.27	0.082	6.45	3	7.28	6.48	6.87	0.442	6.44
	MILITARY	3	1.56	1.19	1.37	0.186	13.58	3	10.93	7.94	9.46	1.496	15.81
SOx	IDLE	0						3	0.81	0.64	0.74	0.067	9.04
	INTERMED. 1	0						3	3.83	3.74	3.79	0.045	1.19
	INTERMED. 2	0						3	4.43	4.28	4.33	0.084	1.94
	MILITARY	0						3	5.61	5.33	5.52	0.162	2.93

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SET 1492-000-0876

REPORT DATE 08/19/76
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : TF30-P7

TEST LOCATION : TINKER AFB

ENGINE 16, PAGE 2

*** CATEGORY B TESTS ONLY ***

MEASURED FUEL FLOW & SMOKE NUMBER :

	TEST MODE	MEAS. FUEL FLOW - #/HR: NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	SMOKE NUMBER: NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
	IDLE	3	1012	852	928	82.7	8.93	3	5.00	2.70	4.57	2.977	65.19
	INTERMED. 1	3	4794	4684	4744	53.3	1.12	3	35.00	29.50	32.90	2.972	9.03
	INTERMED. 2	3	5537	5358	5417	104.2	1.92	3	37.50	32.50	34.47	2.707	7.87
	MILITARY	3	7025	6668	6904	204.4	2.95	3	34.50	30.50	33.17	2.309	6.96

SCOTT ENVIRONMENTAL TECHNOLOGY INC. SET 1+2-104-0876 REPORT DATE 08/20/76
USAF TURBINE ENGINE EMISSIONS INVENTORY USAF CONTRACT F29601-75-C-0046
ENGINE MODEL SUMMARY REPORT

ENGINE MODEL : TF33-P103 TEST LOCATION : TINKER AFB ENGINE ID. MADE 1

*** CATEGORY A TESTS ONLY ***

EXHAUST MASS EMISSION INDICES :

PARAM	TEST MODE	# / 1000 FUEL NO. OBS	# / 1000 FUEL MAX VALUE	# / 1000 FUEL MIN VALUE	# / 1000 FUEL MEAN	# / 1000 FUEL STND DEV	# / 1000 FUEL % COEF VAR	# / HR NO. OBS	# / HR MAX VALUE	# / HR MIN VALUE	# / HR MEAN	# / HR STND DEV	# / HR % COEF VAR
THC	IDLE	1	20.22	20.22				1	17.21	17.21			
	INTERMED. 1	0						0					
	INTERMED. 2	1	0.12	0.12				1	0.88	0.88			
	MILITARY	1	0.09	0.09				1	0.86	0.86			
CO	IDLE	1	40.91	40.91				1	41.6	41.6			
	INTERMED. 1	0						0					
	INTERMED. 2	1	0.65	0.65				1	4.7	4.7			
	MILITARY	1	0.72	0.72				1	6.6	6.6			
NOx	IDLE	1	2.98	2.98				1	2.53	2.53			
	INTERMED. 1	0						0					
	INTERMED. 2	1	28.83	28.83				1	148.60	148.60			
	MILITARY	1	29.56	29.56				1	273.29	273.29			
NO	IDLE	1	0.78	0.78				1	0.59	0.59			
	INTERMED. 1	0						0					
	INTERMED. 2	1	18.52	18.52				1	132.88	132.88			
	MILITARY	1	25.93	25.93				1	239.88	239.88			
NO2	IDLE	1	2.25	2.25				1	1.94	1.94			
	INTERMED. 1	0						0					
	INTERMED. 2	1	2.32	2.32				1	16.52	16.52			
	MILITARY	1	3.71	3.71				1	34.21	34.21			
SOX	IDLE	0						1	0.85	0.85			
	INTERMED. 1	0						0					
	INTERMED. 2	0						1	7.13	7.13			
	MILITARY	0						1	9.21	9.21			

SCOTT ENVIRONMENTAL TECHNOLOGY INC. SET 1492-024-8876 REPORT DATE 83/08/16
USAF TURBINE ENGINE EMISSIONS INVENTORY USAF CONTRACT F29601-75-C-0046
ENGINE MODEL SUMMARY REPORT

ENGINE MODEL : TF34-GE400 TEST LOCATION : TINKER AFB ENGINE 15, PAGE 2

*** CATEGORY A TESTS ONLY ***

MEASURED FUEL FLOW & SMOKE NUMBER :

		MEAS. FUEL FLOW - #/HR					SMOKE NUMBER				
	TEST MODE	NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
	IDLE	1	921	851				1	1.00	1.00			
	INTERMED. 1	0						0					
	INTERMED. 2	1	7133	7133				1	25.00	25.00			
	MILITARY	1	9220	9220				1	24.50	24.50			

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SET 1492-003-0876

REPORT DATE 08/19/76
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : TF30-P100

TEST LOCATION : TINKER AFB

ENGINE 15. PAGE 1

*** CATEGORY B TESTS ONLY ***

EXHAUST MASS EMISSION INDICES :

PARAM	TEST MODE	# / 1000 FUEL NO. OBS	# / 1000 FUEL MAX VALUE	# / 1000 FUEL MIN VALUE	# / 1000 FUEL MEAN	# / 1000 FUEL STND DEV	# / 1000 FUEL % COEF VAR	# / HR NO. OBS	# / HR MAX VALUE	# / HR MIN VALUE	# / HR MEAN	# / HR STND DEV	# / HR % COEF VAR
THC	IDLE	4	19.31	16.30	18.15	1.549	8.53	4	19.53	17.54	18.41	0.957	5.20
	INTERMED. 1	4	8.33	0.57	3.83	3.551	91.23	4	55.80	3.61	24.64	22.419	90.98
	INTERMED. 2	4	5.34	1.05	2.94	2.142	72.91	4	42.56	7.46	21.13	15.428	72.98
	MILITARY	4	5.50	1.07	3.27	2.039	61.92	4	51.63	10.03	29.95	18.628	62.20
CO	IDLE	4	51.85	44.77	48.02	3.377	7.03	4	53.9	46.1	48.8	3.57	0.73
	INTERMED. 1	4	1.21	0.82	0.95	0.176	18.53	4	7.7	5.2	6.0	1.14	1.88
	INTERMED. 2	4	1.10	0.61	0.80	0.215	26.92	4	7.9	4.3	5.7	1.56	2.72
	MILITARY	4	1.00	0.55	0.77	0.186	24.17	4	9.2	4.9	7.0	1.77	2.54
NOX	IDLE	4	2.87	2.64	2.74	0.102	3.73	4	2.91	2.58	2.78	0.144	5.16
	INTERMED. 1	4	17.71	15.75	16.84	0.807	4.79	4	111.62	100.66	106.66	4.521	4.24
	INTERMED. 2	4	21.61	18.39	19.49	1.324	6.64	4	153.53	131.54	142.87	9.036	6.32
	MILITARY	4	27.42	23.81	25.47	1.793	6.77	4	251.33	219.02	241.32	15.018	6.22
NO	IDLE	4	0.54	0.44	0.49	0.042	8.67	4	0.55	0.39	0.50	0.074	14.80
	INTERMED. 1	4	15.81	14.08	15.07	0.769	5.10	4	99.63	89.46	95.57	4.321	4.52
	INTERMED. 2	4	19.23	15.41	17.57	0.797	4.53	4	129.64	117.41	126.19	5.895	4.67
	MILITARY	4	24.29	21.25	23.37	1.424	6.09	4	223.97	195.52	213.80	12.665	5.95
NO2	IDLE	4	2.43	2.16	2.25	0.124	5.49	4	2.37	2.19	2.29	0.083	3.51
	INTERMED. 1	4	1.74	1.56	1.75	0.141	8.05	4	11.99	9.88	11.09	0.880	7.94
	INTERMED. 2	4	3.37	1.93	2.32	0.644	30.11	4	23.97	13.86	16.67	4.879	29.26
	MILITARY	4	3.21	2.58	3.11	0.524	16.83	4	33.96	23.50	28.31	4.328	15.26
SOX	IDLE	4						4	1.48	0.72	0.87	0.153	17.58
	INTERMED. 1	4						4	5.32	5.04	5.38	0.626	11.62
	INTERMED. 2	4						4	7.17	5.68	6.18	0.716	11.74
	MILITARY	4						4	9.21	7.12	7.74	0.982	12.67

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SET 1442-0AA-0876

REPORT DATE 08/19/76
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : TF30-P100

TEST LOCATION : TINKER AFB

ENGINE 15, PAGE 2

*** CATEGORY B TESTS ONLY ***

MEASURED FUEL FLOW & SMOKE NUMBER :

	TEST MODE	NO. OBS	MEAS. FUEL FLOW - #/HR MAX VALUE	MIN VALUE	MEAN	STND DEV	* COEF VAR	NO. OBS	SMOKE NUMBER MAX VALUE	MIN VALUE	MEAN	STND DEV	* COEF VAR
	IDLE	4	1480	896	1417	87.3	6.16	4	5.00	3.50	4.38	0.750	17.14
	INTERMED. 1	4	5390	5303	5335	37.6	0.70	4	36.50	33.00	34.50	1.472	4.27
	INTERMED. 2	4	7293	7135	7196	79.3	1.10	4	35.50	28.00	31.68	3.074	9.73
	MILITARY	4	9217	8989	9114	141.6	1.55	4	31.00	25.00	27.42	2.873	10.48

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SET 1442-JA9-8875

REPORT DATE 08/20/76
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : TF30-P3

TEST LOCATION : TINKER AFB

ENGINE No. PAGE 1

*** CATEGORY A TESTS ONLY ***

EXHAUST MASS EMISSION INDICES :

PARAM	TEST MODE	# / 10 ** 3 FUEL						# / HR					
		NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	* COEF VAR	NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	* COEF VAR
THC	IDLE	1	62.11	62.11				1	51.24	51.24			
	INTERMED. 1	0						0					
	INTERMED. 2	1	8.14	8.14				1	8.92	8.92			
	MILITARY	1	8.12	8.12				1	8.71	8.71			
CO	IDLE	1	71.54	71.54				1	59.0	59.0			
	INTERMED. 1	0						0					
	INTERMED. 2	1	2.65	2.65				1	14.1	14.1			
	MILITARY	1	1.25	1.25				1	7.5	7.5			
NOX	IDLE	1	2.42	2.42				1	1.99	1.99			
	INTERMED. 1	0						0					
	INTERMED. 2	1	11.63	11.63				1	57.54	57.54			
	MILITARY	1	14.80	14.80				1	84.73	84.73			
NO	IDLE	1	0.38	0.38				1	0.24	0.24			
	INTERMED. 1	0						0					
	INTERMED. 2	1	7.82	7.82				1	48.57	48.57			
	MILITARY	1	12.85	12.85				1	72.99	72.99			
NO2	IDLE	1	2.12	2.12				1	1.75	1.75			
	INTERMED. 1	0						0					
	INTERMED. 2	1	1.81	1.81				1	9.97	9.97			
	MILITARY	1	1.94	1.94				1	11.74	11.74			
SOX	IDLE	0						1	0.66	0.66			
	INTERMED. 1	0						0					
	INTERMED. 2	0						1	3.95	3.95			
	MILITARY	0						1	4.84	4.84			

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SST I.D.=004-0876

REPORT DATE 08/20/76
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : TF30-P9

TEST LOCATION : TINKER AFB

ENGINE 14, PAGE 2

*** CATEGORY A TESTS ONLY ***

MEASURED FUEL FLOW & SMOKE NUMBER :

TEST MODE	MEAS. FUEL FLOW - #/HR NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	SMOKE NUMBER NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
IDLE	1	825	825				1	8.25	8.25			
INTERMED. 1	0						0					
INTERMED. 2	1	4745	4745				1	28.48	28.48			
MILITARY	1	5451	5451				1	29.21	29.21			

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SET 1492-000-0075

REPORT DATE 08/19/76
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : TF30-P-3

TEST LOCATION : EINSEN AFB

ENGINE 14. PAGE 1

*** CATEGORY A TESTS ONLY ***

EXHAUST MASS EMISSION INDICES :

PARAM	TEST MODE	NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
		* # / 1000# FUEL *						* # / HR *					
THC	IDLE	3	73.20	51.43	62.87	10.928	17.38	3	58.20	45.47	52.92	6.638	12.54
	INTERMED. 1	3	5.02	4.94	5.57	0.564	10.11	3	26.21	21.24	24.32	2.688	11.05
	INTERMED. 2	3	14.57	4.85	9.22	8.377	91.42	3	92.47	20.35	45.22	40.939	90.53
	MILITARY	3	17.53	5.74	9.11	6.583	66.21	3	145.89	35.37	68.92	39.063	64.12
CO	IDLE	3	73.86	55.80	72.77	6.575	9.03	3	63.4	58.2	61.4	2.82	0.46
	INTERMED. 1	3	4.47	3.10	3.58	0.759	21.09	3	19.2	13.1	15.6	3.18	2.03
	INTERMED. 2	3	3.87	2.02	2.53	0.537	21.26	3	15.1	9.9	12.5	2.60	2.09
	MILITARY	3	2.11	1.15	1.52	0.519	34.19	3	12.7	7.1	9.3	2.97	3.18
NOx	IDLE	3	2.46	1.88	2.15	0.293	13.64	3	2.18	1.50	1.83	0.340	18.60
	INTERMED. 1	3	4.52	3.76	4.04	0.424	4.65	3	40.32	37.65	39.39	1.500	3.81
	INTERMED. 2	3	11.19	9.86	10.44	0.646	6.57	3	54.63	49.35	51.49	2.784	5.41
	MILITARY	3	14.30	12.31	13.14	1.035	7.88	3	88.11	77.48	81.13	6.052	7.46
NO	IDLE	3	0.45	0.24	0.32	0.121	34.12	3	0.42	0.22	0.30	0.104	34.31
	INTERMED. 1	3	8.30	7.45	7.76	0.463	6.05	3	35.16	32.00	33.80	1.625	4.81
	INTERMED. 2	3	9.98	8.54	9.15	0.685	7.49	3	48.32	42.91	45.89	2.857	6.34
	MILITARY	3	12.89	11.89	11.74	0.999	8.48	3	79.42	69.10	72.71	5.814	8.00
NO2	IDLE	3	2.22	1.56	1.77	0.372	20.72	3	1.35	1.22	1.52	0.388	25.44
	INTERMED. 1	3	1.32	1.22	1.23	0.051	4.13	3	5.93	5.15	5.54	0.390	6.98
	INTERMED. 2	3	1.31	1.23	1.27	0.015	1.18	3	6.44	6.31	6.40	0.075	1.17
	MILITARY	3	1.41	1.38	1.35	0.256	4.49	3	8.69	8.26	8.41	0.240	2.85
SOx	IDLE	0						3	0.71	0.64	0.68	0.036	5.30
	INTERMED. 1	0						3	3.64	3.39	3.47	0.134	3.85
	INTERMED. 2	0						3	4.01	3.90	3.94	0.059	1.49
	MILITARY	0						3	5.06	4.83	4.94	0.116	2.35

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SET 1492-083-0876

REPORT DATE 08/19/76
USAF CONTRACT F29601-75-C-0045

ENGINE MODEL : TF33-P3

TEST LOCATION : TINKER AFB

ENGINE 14, PAGE 2

*** CATEGORY A TESTS ONLY ***

MEASURED FUEL FLOW & SMOKE NUMBER :

	TEST MODE	MEAS. FUEL FLOW - #/HR						SMOKE NUMBER					
		NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
	IDLE	3	834	795	817	45.2	5.45	3	4.00	1.00	3.03	1.266	41.74
	INTERMED. 1	3	4549	4231	4351	165.7	3.80	3	38.00	35.20	35.33	1.493	4.11
	INTERMED. 2	3	5415	4443	4933	71.6	1.45	3	37.50	35.70	35.73	0.927	2.53
	MILITARY	3	5327	5026	5175	144.0	2.33	3	37.70	33.00	33.00	3.851	11.37

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SET 1492-188-8878

REPORT DATE 08/28/76
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : J57-43

TEST LOCATION : TINKER AFB

ENGINE ID. PASE 1

*** CATEGORY A TESTS ONLY ***

EXHAUST MASS EMISSION INDICES :

PARAM	TEST MODE	# / 1000 # FUEL						# / HR					
		NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
THC	IDLE	1	51.13	51.13				1	82.11	82.11			
	INTERMED. 1	0						0					
	INTERMED. 2	1	0.84	0.84				1	0.58	0.58			
	MILITARY	1	0.85	0.85				1	0.39	0.39			
CO	IDLE	1	55.83	55.83				1	87.1	87.1			
	INTERMED. 1	0						0					
	INTERMED. 2	1	2.44	2.44				1	13.7	13.7			
	MILITARY	1	1.41	1.41				1	11.5	11.5			
NOX	IDLE	1	2.22	2.22				1	2.25	2.25			
	INTERMED. 1	0						0					
	INTERMED. 2	1	14.32	14.32				1	78.54	78.54			
	MILITARY	1	11.25	11.25				1	91.98	91.98			
HC	IDLE	1	0.39	0.39				1	0.39	0.39			
	INTERMED. 1	0						0					
	INTERMED. 2	1	0.25	0.25				1	53.23	53.23			
	MILITARY	1	12.39	12.39				1	84.51	84.51			
SOX	IDLE	1	1.86	1.86				1	1.86	1.86			
	INTERMED. 1	0						0					
	INTERMED. 2	1	1.87	1.87				1	7.38	7.38			
	MILITARY	1	0.91	0.91				1	7.46	7.46			
SOX	IDLE	0						1	1.81	1.81			
	INTERMED. 1	0						0					
	INTERMED. 2	0						1	6.83	6.83			
	MILITARY	0						1	8.16	8.16			

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

ENGINE MODEL : [illegible]

SET 1492-083-0576

REPORT DATE 08/20/76
USAF CONTRACT F29601-75-C-0046

TEST LOCATION : TINKER AFB

ENGINE 13, PAGE 2

*** CATEGORY A TESTS ONLY ***

MEASURED FUEL FLOW & SMOKE NUMBER :

TEST MODE	MEAS. FUEL FLOW - #/HR NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	SMOKE NUMBER NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
IDLE	1	[illegible]	[illegible]				1	7.5#	7.5#			
INTERMED. 1	#						#					
INTERMED. 2	1	[illegible]	[illegible]				1	55.##	55.##			
MILITARY	1	9165	9165				1	55.75	55.75			

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SET 1492-088-0875

REPORT DATE 08/19/76
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : J57-43

TEST LOCATION : TINKER AFB

ENGINE 13. PAGE 1

*** CATEGORY B TESTS ONLY ***

EXHAUST MASS EMISSION INDICES :

PARAM	TEST MODE	# / 1000# FUEL NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	# / HR NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
THC	IDLE	4	81.43	56.28	68.35	10.434	15.27	4	80.78	54.74	66.96	11.063	16.52
	INTERMED. 1	4	3.31	0.42	1.84	1.258	68.28	4	19.25	2.30	10.84	7.416	68.38
	INTERMED. 2	4	1.81	0.58	1.07	0.592	55.09	4	12.52	3.71	7.28	4.263	58.58
	MILITARY	4	2.21	0.80	1.48	0.587	39.58	4	17.65	5.83	11.58	4.932	42.59
CO	IDLE	4	75.81	69.08	72.35	2.764	3.82	4	75.7	67.3	70.8	3.66	0.52
	INTERMED. 1	4	2.88	2.59	2.73	0.146	5.36	4	16.8	15.1	15.8	0.71	0.45
	INTERMED. 2	4	2.21	1.92	2.05	0.127	6.20	4	14.4	13.3	13.6	0.53	0.39
	MILITARY	4	1.66	1.51	1.59	0.062	3.88	4	13.2	11.7	12.3	0.65	0.53
NOx	IDLE	4	2.29	1.95	2.14	0.157	7.33	4	2.24	1.96	2.10	0.159	7.57
	INTERMED. 1	4	9.38	7.61	8.23	0.771	9.36	4	54.12	41.25	47.80	5.518	11.55
	INTERMED. 2	4	10.60	8.86	9.45	0.809	8.56	4	70.85	54.10	62.91	7.019	11.16
	MILITARY	4	11.39	10.03	10.75	0.802	7.46	4	91.04	76.31	82.93	6.537	7.88
NO	IDLE	4	0.64	0.43	0.53	0.117	21.93	4	0.65	0.42	0.52	0.103	19.79
	INTERMED. 1	4	8.15	6.40	7.10	0.744	10.53	4	47.45	36.91	41.18	4.888	11.68
	INTERMED. 2	4	9.55	7.77	8.37	0.811	9.69	4	63.81	48.37	55.71	6.464	11.60
	MILITARY	4	10.74	8.96	9.76	0.837	8.58	4	83.78	69.87	75.28	6.417	8.52
NO2	IDLE	4	1.86	1.38	1.61	0.213	13.21	4	1.81	1.31	1.57	0.218	13.82
	INTERMED. 1	4	1.33	0.98	1.13	0.235	20.73	4	7.89	4.34	6.61	1.588	24.19
	INTERMED. 2	4	1.18	0.94	1.05	0.107	9.89	4	8.18	5.73	7.28	1.089	15.13
	MILITARY	4	1.07	0.88	0.99	0.091	9.22	4	8.47	6.44	7.65	0.983	12.85
SOx	IDLE	2						4	1.08	0.95	0.98	0.022	2.27
	INTERMED. 1	0						4	5.81	5.41	5.79	0.266	4.58
	INTERMED. 2	0						4	5.91	6.18	6.65	0.388	5.72
	MILITARY	0						4	7.97	7.32	7.71	0.292	3.79

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SET 1492-DAA-0876

REPORT DATE 08/19/76
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : J57-43

TEST LOCATION : TINKER AFB

ENGINE 13. PAGE 2

*** CATEGORY A TESTS ONLY ***

MEASURED FUEL FLOW & SMOKE NUMBER :

	TEST MODE	MEAS. FUEL FLOW - #/HR NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	SMOKE NUMBER NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
	IDLE	4	994	949	974	22.3	2.28	4	10.40	6.50	8.97	1.752	19.52
	INTERMED. 1	4	6019	5419	5798	265.3	4.58	4	58.50	54.00	56.75	2.327	4.10
	INTERMED. 2	4	6919	6104	6653	381.5	5.73	4	62.50	55.50	58.00	3.082	5.31
	MILITARY	4	7976	7322	7714	295.4	3.82	4	62.50	57.50	59.27	2.207	3.72

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SET 1492-008-0876

REPORT DATE 08/20/76
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : J57-19W

TEST LOCATION : TINKER AFB

ENGINE 12, PAGE 1

*** CATEGORY A TESTS ONLY ***

EXHAUST MASS EMISSION INDICES :

PARAM	TEST MODE	# / 1000# FUEL NO. OBS	# / 1000# FUEL MAX VALUE	# / 1000# FUEL MIN VALUE	# / 1000# FUEL MEAN	# / 1000# FUEL STND DEV	# / 1000# FUEL % COEF VAR	# / HR NO. OBS	# / HR MAX VALUE	# / HR MIN VALUE	# / HR MEAN	# / HR STND DEV	# / HR % COEF VAR
THC	IDLE	1	79.13	79.13				1	78.74	78.74			
	INTERMED. 1	0						0					
	INTERMED. 2	1	0.15	0.15				1	0.98	0.98			
	MILITARY	1	0.09	0.09				1	0.67	0.67			
CO	IDLE	1	80.82	80.82				1	80.4	80.4			
	INTERMED. 1	0						0					
	INTERMED. 2	1	2.38	2.38				1	15.7	15.7			
	MILITARY	1	1.87	1.87				1	14.0	14.0			
NOx	IDLE	1	2.27	2.27				1	2.26	2.26			
	INTERMED. 1	0						0					
	INTERMED. 2	1	9.88	9.88				1	64.73	64.73			
	MILITARY	1	10.88	10.88				1	80.80	80.80			
NO	IDLE	1	0.27	0.27				1	0.27	0.27			
	INTERMED. 1	0						0					
	INTERMED. 2	1	8.05	8.05				1	53.19	53.19			
	MILITARY	1	9.33	9.33				1	67.51	67.51			
NO2	IDLE	1	2.00	2.00				1	1.99	1.99			
	INTERMED. 1	0						0					
	INTERMED. 2	1	1.75	1.75				1	11.53	11.53			
	MILITARY	1	1.78	1.78				1	13.29	13.29			
SOX	IDLE	0						1	0.99	0.99			
	INTERMED. 1	0						0					
	INTERMED. 2	0						1	6.60	6.60			
	MILITARY	0						1	7.47	7.47			

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SET 1492-000-0876

REPORT DATE 03/20/76
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : J57-14A

TEST LOCATION : TINKER AFB

ENGINE 12, PAGE 2

*** CATEGORY A TESTS ONLY ***

MEASURED FUEL FLOW & SMOKE NUMBER :

	TEST MODE	MEAS. FUEL FLOW - #/HR: NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	SMOKE NUMBER: NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
	IDLE	1	995	995				1	7.67	7.67			
	INTERMED. 1	0						0					
	INTERMED. 2	1	6647	6647				1	56.92	56.92			
	MILITARY	1	7479	7479				1	55.83	55.83			

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SET 1492-000-0876

REPORT DATE 08/19/76
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : J57-P4A

TEST LOCATION : TINKER AFB

ENGINE 12, PAGE 1

*** CATEGORY B TESTS ONLY ***

EXHAUST MASS EMISSION INDICES :

PARAM	TEST MODE	# / 1000# FUEL NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	# / HR NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
THC	IDLE	3	88.78	61.94	75.20	13.574	18.05	3	82.21	56.71	70.89	12.988	18.32
	INTERMED. 1	3	6.40	0.45	3.19	3.004	94.25	3	36.72	2.26	17.80	17.477	98.18
	INTERMED. 2	3	4.94	0.35	2.53	2.384	91.05	3	31.97	2.04	16.54	14.987	90.63
	MILITARY	3	2.28	0.44	1.44	0.930	64.61	3	17.19	3.17	10.88	7.113	65.40
CO	IDLE	3	81.14	73.85	76.44	4.203	5.50	3	75.1	67.2	72.0	4.22	0.59
	INTERMED. 1	3	3.69	3.12	3.49	0.323	9.26	3	19.6	17.9	18.7	0.85	0.45
	INTERMED. 2	3	2.66	2.23	2.45	0.215	8.78	3	15.9	15.1	15.5	0.40	0.26
	MILITARY	3	1.88	1.79	1.85	0.049	2.67	3	14.1	13.4	13.8	0.35	0.26
NOX	IDLE	3	2.24	2.12	2.17	0.064	2.97	3	2.20	1.96	2.04	0.136	6.64
	INTERMED. 1	3	7.74	7.37	7.51	0.242	3.23	3	44.64	37.39	40.44	3.761	9.30
	INTERMED. 2	3	9.11	8.32	8.76	0.403	4.60	3	61.91	48.67	55.95	6.717	12.01
	MILITARY	3	10.00	9.94	10.20	0.465	4.56	3	82.99	70.92	76.51	6.085	7.95
NO	IDLE	3	0.57	0.23	0.43	0.138	41.43	3	0.56	0.21	0.41	0.180	43.97
	INTERMED. 1	3	6.29	5.87	6.09	0.210	3.46	3	36.06	30.95	32.76	2.868	8.73
	INTERMED. 2	3	8.02	7.11	7.61	0.461	6.06	3	54.52	41.61	48.63	6.530	13.43
	MILITARY	3	10.07	8.61	9.22	0.761	8.25	3	77.37	61.41	68.76	8.055	11.72
NO2	IDLE	3	1.91	1.62	1.73	0.155	8.94	3	1.76	1.58	1.63	0.130	7.97
	INTERMED. 1	3	1.58	1.27	1.42	0.133	9.33	3	8.58	6.44	7.67	1.107	14.42
	INTERMED. 2	3	1.21	1.09	1.15	0.054	5.23	3	7.49	7.07	7.32	0.219	3.00
	MILITARY	3	1.33	0.73	1.05	0.301	28.79	3	9.51	5.62	7.75	1.971	25.44
SOX	IDLE	4						3	0.98	0.92	0.94	0.032	3.41
	INTERMED. 1	6						3	5.73	5.07	5.37	0.333	6.20
	INTERMED. 2	0						3	6.79	5.84	6.37	0.483	7.59
	MILITARY	0						3	7.67	7.13	7.44	0.279	3.75

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SET 1492-000-0076

REPORT DATE 08/19/76
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : J57-19W

TEST LOCATION : TINKER AFB

ENGINE 12, PAGE 2

*** CATEGORY A TESTS ONLY ***

MEASURED FUEL FLOW & SMOKE NUMBER :

		MEAS. FUEL FLOW - #/HR					SMOKE NUMBER					
	TEST MODE	NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
	IDLE	3	981	920	942	33.6	3.57	3	11.00	10.50	10.90	0.361	3.31
	INTERMED. 1	3	5734	5072	5378	333.9	6.21	3	58.00	54.50	57.73	2.875	4.98
	INTERMED. 2	3	5795	5850	6373	480.5	7.54	3	61.20	58.00	59.90	1.582	2.61
	MILITARY	3	7682	7132	7447	283.5	3.81	3	61.70	59.00	60.73	1.504	2.48

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SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF T/F-1E ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SET 1492-003-0476

REPORT DATE 08/20/76
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : TF41-A1

TEST LOCATION : TINKER AFB

ENGINE ID. PAGE 1

*** CATEGORY A TESTS ONLY ***

EXHAUST MASS EMISSION INDICES :

PARAM	TEST MODE	# / 1000# FUEL NO. OBS	# / 1000# FUEL MAX VALUE	# / 1000# FUEL MIN VALUE	# / 1000# FUEL MEAN	# / 1000# FUEL STND DEV	# / 1000# FUEL % COEF VAR	# / HR NO. OBS	# / HR MAX VALUE	# / HR MIN VALUE	# / HR MEAN	# / HR STND DEV	# / HR % COEF VAR
THC	IDLE	1	91.88	91.88				1	93.54	93.54			
	INTERMED. 1	0						0					
	INTERMED. 2	1	0.36	0.36				1	2.07	2.07			
	MIL.CR.PWR.	0						0					
	FULL POWER	1	0.15	0.15				1	1.25	1.25			
CO	IDLE	1	118.24	118.24				1	120.5	120.5			
	INTERMED. 1	0						0					
	INTERMED. 2	1	3.75	3.75				1	21.7	21.7			
	MIL.CR.PWR.	0						0					
	FULL POWER	1	1.87	1.87				1	15.8	15.8			
NOX	IDLE	1	1.54	1.54				1	1.57	1.57			
	INTERMED. 1	0						0					
	INTERMED. 2	1	12.74	12.74				1	73.94	73.94			
	MIL.CR.PWR.	0						0					
	FULL POWER	1	21.55	21.55				1	181.65	181.65			
NO	IDLE	1	0.78	0.78				1	0.71	0.71			
	INTERMED. 1	0						0					
	INTERMED. 2	1	14.43	14.43				1	62.84	62.84			
	MIL.CR.PWR.	0						0					
	FULL POWER	1	19.19	19.19				1	161.79	161.79			
NO2	IDLE	1	1.15	1.15				1	1.17	1.17			
	INTERMED. 1	0						0					
	INTERMED. 2	1	2.56	2.56				1	15.31	15.31			
	MIL.CR.PWR.	0						0					
	FULL POWER	1	2.49	2.49				1	20.98	20.98			
SOX	IDLE	0						1	1.02	1.02			
	INTERMED. 1	0						0					
	INTERMED. 2	0						1	5.88	5.88			
	MIL.CR.PWR.	0						0					
	FULL POWER	0						1	8.42	8.42			

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SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SET 1492-088-8876

REPORT DATE 08/20/76
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : TF41-A1

TEST LOCATION : TINKER AFB

ENGINE 11, PAGE 2

*** CATEGORY A TESTS ONLY ***

MEASURED FUEL FLOW & SMOKE NUMBER :

	TEST MODE	MEAS. FUEL FLOW - #/HR NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	SMOKE NUMBER NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
	IDLE	1	1019	1019				1	7.58	7.58			
	INTERMED. 1	0						0					
	INTERMED. 2	1	5582	5582				1	27.92	27.92			
	MIL.CR.PWR.	0						0					
	FULL POWER	1	8429	8429				1	34.88	34.88			

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SET 1492-008-0875

REPORT DATE 08/19/76
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : TF41-A1

TEST LOCATION : TINKER AFB

ENGINE 11. PAGE 1

*** CATEGORY B TESTS ONLY ***

EXHAUST MASS EMISSION INDICES :

PARAM	TEST MODE	# / 1000# FUEL NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	# / HR NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
THC	IDLE	5	107.43	75.33	92.61	11.907	12.86	5	109.15	76.38	93.19	12.020	12.90
	INTERMED. 1	5	3.66	0.55	1.59	1.211	71.76	5	18.71	2.91	8.72	6.164	70.69
	INTERMED. 2	5	1.37	0.25	0.97	0.432	44.13	5	8.02	1.53	5.65	2.487	44.03
	MIL.CR.PWR.	5	3.74	0.57	2.24	1.586	70.69	5	27.03	4.07	16.04	11.341	70.70
	FULL POWER	5	6.25	0.34	3.72	2.142	57.49	5	52.83	2.81	31.31	18.057	57.68
CO	IDLE	5	122.51	115.47	119.54	2.917	2.44	5	125.0	117.1	120.3	2.92	0.24
	INTERMED. 1	5	5.14	3.76	4.62	0.553	11.99	5	26.3	19.4	23.9	2.60	1.09
	INTERMED. 2	5	4.07	2.94	3.57	0.435	12.18	5	23.4	17.4	20.8	2.32	1.12
	MIL.CR.PWR.	5	2.52	1.90	2.32	0.265	11.41	5	18.2	13.5	16.6	1.95	1.18
	FULL POWER	5	1.94	1.54	1.81	0.164	9.08	5	16.3	13.1	15.2	1.29	0.85
NOX	IDLE	5	1.58	1.31	1.41	0.075	5.30	5	1.52	1.28	1.42	0.091	6.41
	INTERMED. 1	5	11.41	9.53	10.33	0.756	7.32	5	50.12	48.78	53.66	4.528	8.44
	INTERMED. 2	5	13.57	11.54	12.21	0.884	7.24	5	80.22	66.55	71.10	5.928	8.34
	MIL.CR.PWR.	5	18.21	15.87	16.99	1.018	5.99	5	129.23	112.79	121.29	7.442	6.14
	FULL POWER	5	22.49	19.51	21.31	1.177	5.52	5	190.82	163.36	179.11	11.173	6.24
NO	IDLE	5	0.66	0.60	0.63	0.024	3.78	5	0.66	0.61	0.64	0.023	3.57
	INTERMED. 1	5	8.78	7.19	7.79	0.623	8.00	5	45.85	36.86	48.48	3.703	9.15
	INTERMED. 2	5	10.66	9.14	9.73	0.595	6.08	5	63.82	52.48	56.96	4.122	7.24
	MIL.CR.PWR.	5	17.11	14.45	15.55	1.121	7.21	5	123.22	102.88	118.99	8.389	7.56
	FULL POWER	5	21.46	15.11	20.20	1.297	6.42	5	181.26	151.56	169.78	11.784	6.89
NO2	IDLE	5	0.84	0.68	0.77	0.059	7.63	5	0.85	0.67	0.78	0.068	8.64
	INTERMED. 1	5	2.75	2.17	2.56	0.238	9.38	5	14.26	11.28	13.19	1.306	9.98
	INTERMED. 2	5	2.91	2.44	2.63	0.365	15.06	5	17.28	11.78	14.15	2.233	15.79
	MIL.CR.PWR.	5	1.91	0.74	1.44	0.415	28.75	5	13.57	5.72	10.38	2.918	28.25
	FULL POWER	5	2.22	0.51	1.11	0.709	63.87	5	18.79	4.48	9.33	6.017	64.52
SOX	IDLE	0						5	1.02	0.94	1.01	0.017	1.66
	INTERMED. 1	0						5	5.26	5.11	5.18	0.066	1.27
	INTERMED. 2	0						5	5.91	5.74	5.82	0.069	1.18
	MIL.CR.PWR.	0						5	7.19	7.09	7.13	0.039	0.55
	FULL POWER	0						5	8.48	8.26	8.40	0.068	1.84

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SET 1492-008-0875

REPORT DATE 08/19/76
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : TF41-A1

TEST LOCATION : TINKER AFB

ENGINE 11. PAGE 2

*** CATEGORY B TESTS ONLY ***

MEASURED FUEL FLOW & SMOKE NUMBER :

	TEST MODE	MEAS. FUEL FLOW - #/HR NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	SMOKE NUMBER NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
	IDLE	5	1028	988	1005	16.2	1.61	5	19.00	9.50	13.80	3.758	28.91
	INTERMED. 1	5	5268	5116	5190	65.9	1.27	5	40.00	36.00	38.10	1.817	4.77
	INTERMED. 2	5	5912	5744	5821	67.6	1.16	5	44.00	33.00	40.20	4.192	10.43
	MIL.CR.PWR.	5	7201	7097	7138	41.1	0.58	5	50.00	40.00	44.30	3.633	8.20
	FULL POWER	5	8485	8269	8403	85.7	1.02	5	51.00	45.00	47.70	2.225	4.66

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SET 1492-000-8876

REPORT DATE 08/20/76
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : TF33-P7

TEST LOCATION : TINKER AFB

ENGINE ID. PAGE 1

*** CATEGORY A TESTS ONLY ***

EXHAUST GAS EMISSION INDICES :

PARAM	TEST MODE	# / 1000 # FUEL						# / HR					
		NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
THC	IDLE	1	85.98	85.98				1	93.87	93.87			
	INTERMED. 1	0						0					
	INTERMED. 2	1	0.10	0.10				1	0.72	0.72			
	MILITARY	1	0.03	0.03				1	0.24	0.24			
CO	IDLE	1	96.64	96.64				1	103.2	103.2			
	INTERMED. 1	0						0					
	INTERMED. 2	1	1.29	1.29				1	9.3	9.3			
	MILITARY	1	0.79	0.79				1	6.8	6.8			
NOx	IDLE	1	1.69	1.69				1	1.81	1.81			
	INTERMED. 1	0						0					
	INTERMED. 2	1	9.63	9.63				1	69.11	69.11			
	MILITARY	1	11.85	11.85				1	182.32	182.32			
HC	IDLE	1	0.38	0.38				1	0.32	0.32			
	INTERMED. 1	0						0					
	INTERMED. 2	1	0.37	0.37				1	68.89	68.89			
	MILITARY	1	10.44	10.44				1	98.10	98.10			
SO2	IDLE	1	1.44	1.44				1	1.44	1.44			
	INTERMED. 1	0						0					
	INTERMED. 2	1	1.25	1.25				1	9.42	9.42			
	MILITARY	1	1.41	1.41				1	12.21	12.21			
SOX	IDLE	0						1	1.47	1.47			
	INTERMED. 1	0						0					
	INTERMED. 2	0						1	7.17	7.17			
	MILITARY	0						1	8.52	8.52			

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SET 1492-088-0876

REPORT DATE 08/28/76
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : TF33-P7

TEST LOCATION : TINKER AFB

ENGINE ID. PAGE 2

*** CATEGORY A TESTS ONLY ***

MEASURED FUEL FLOW & SMOKE NUMBER :

	TEST MODE	MEAS. FUEL FLOW - #/HR NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	SMOKE NUMBER NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
	IDLE	1	1670	1670				1	6.97	6.97			
	INTERMED. 1	0						0					
	INTERMED. 2	1	7179	7179				1	50.93	50.93			
	MILITARY	1	8532	8532				1	47.98	47.98			

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SET 1492-D0A-0876

REPORT DATE 08/19/76
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : TF33-P7

TEST LOCATION : TINKER AFB

ENGINE 12. PAGE 1

*** CATEGORY A TESTS ONLY ***

EXHAUST MASS EMISSION INDICES :

PARAM	TEST MODE	# / 1000# FUEL NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	# / HR NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
THC	IDLE	4	83.08	56.86	67.15	11.342	16.89	4	87.98	60.95	71.73	12.524	17.46
	INTERMED. 1	4	1.81	0.35	0.85	0.653	75.82	4	11.20	2.18	5.36	4.017	74.87
	INTERMED. 2	4	0.54	0.25	0.42	0.131	30.83	4	3.82	1.86	3.10	0.918	29.65
	MILITARY	4	0.37	0.17	0.30	0.076	25.65	4	3.23	1.64	2.60	0.685	26.36
	TAKE-OFF	4	0.30	0.15	0.24	0.060	24.60	4	3.05	1.56	2.50	0.654	26.12
CO	IDLE	4	93.86	87.24	89.67	2.886	3.22	4	100.0	88.4	95.8	5.34	0.56
	INTERMED. 1	4	2.42	1.35	1.99	0.478	24.07	4	15.0	8.6	12.4	2.84	2.29
	INTERMED. 2	4	1.47	0.97	1.24	0.219	17.72	4	10.4	7.0	9.0	1.63	1.81
	MILITARY	4	0.96	0.68	0.80	0.107	13.39	4	8.4	5.9	7.0	1.03	1.47
	TAKE-OFF	4	0.77	0.54	0.62	0.103	16.75	4	8.0	5.5	6.3	1.15	1.82
NOx	IDLE	4	1.46	1.64	1.82	0.112	6.17	4	2.10	1.81	1.94	0.120	6.20
	INTERMED. 1	4	8.82	5.81	7.43	0.857	10.87	4	56.15	42.37	49.47	5.726	11.58
	INTERMED. 2	4	10.14	8.25	9.13	0.808	8.85	4	73.22	63.20	66.47	4.641	6.98
	MILITARY	4	12.48	9.52	11.22	1.234	10.99	4	108.34	85.90	98.17	9.477	9.65
	TAKE-OFF	4	15.29	11.49	13.74	1.809	13.16	4	157.99	119.57	140.42	18.251	13.00
NO	IDLE	4	0.62	0.38	0.43	0.137	32.15	4	0.70	0.32	0.46	0.166	36.16
	INTERMED. 1	4	8.12	5.83	6.87	1.315	19.15	4	51.71	31.33	43.14	8.546	19.81
	INTERMED. 2	4	9.42	6.21	8.05	1.351	16.78	4	58.01	47.58	56.49	8.402	14.36
	MILITARY	4	11.67	7.35	9.73	1.854	18.67	4	101.27	65.76	87.26	15.223	17.45
	TAKE-OFF	4	15.87	9.83	12.52	2.635	21.21	4	152.96	94.80	127.80	26.483	20.72
NO2	IDLE	4	1.56	1.87	1.39	0.247	17.74	4	1.78	1.21	1.48	0.244	16.49
	INTERMED. 1	4	1.77	0.68	1.01	0.515	51.03	4	11.04	4.30	6.32	3.191	50.47
	INTERMED. 2	4	2.09	0.72	1.05	0.642	59.43	4	15.62	5.21	7.98	5.100	63.87
	MILITARY	4	2.26	0.81	1.24	0.695	55.24	4	20.14	7.07	10.91	6.188	56.70
	TAKE-OFF	4	2.46	0.83	1.23	0.998	81.30	4	25.57	0.30	12.62	10.394	82.35
SOx	IDLE	0						4	1.80	1.01	1.23	0.378	30.57
	INTERMED. 1	0						4	9.95	6.18	7.20	1.835	25.48
	INTERMED. 2	0						4	12.25	7.04	8.43	2.546	30.20
	MILITARY	0						4	14.28	8.50	10.09	2.796	27.72
	TAKE-OFF	0						4	15.64	10.01	11.77	3.246	27.57

SCOTT ENVIRONMENTAL TECHNOLOGY INC. SET 1492-00R-0876 REPORT DATE 08/19/76
USAF TURBINE ENGINE EMISSIONS INVENTORY USAF CONTRACT F29601-75-C-0046
ENGINE MODEL SUMMARY REPORT

ENGINE MODEL : TF33-P7 TEST LOCATION : TINKER AFB ENGINE 10, PAGE 2

*** CATEGORY B TESTS ONLY ***

MEASURED FUEL FLOW & SMOKE NUMBER :

	TEST MODE	MEAS. FUEL FLOW - #/HR NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	SMOKE NUMBER NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
	IDLE	4	1128	1013	1068	47.3	4.43	4	15.00	6.00	9.50	4.041	42.54
	INTERMED. 1	4	6367	6185	6273	82.6	1.32	4	51.00	42.00	48.00	4.243	8.84
	INTERMED. 2	4	7562	7042	7290	263.1	3.61	4	52.00	40.00	47.63	5.250	11.02
	MILITARY	4	8933	8610	8757	142.3	1.62	4	51.00	40.00	47.00	5.228	11.12
	TAKE-OFF	4	10407	10015	10223	179.3	1.75	4	51.50	39.00	43.92	6.085	13.85

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SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SET 1492-DOR-8876

REPORT DATE 08/20/76
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : J75-P17

TEST LOCATION : ELMENDORF AFB

ENGINE #. PAGE 1

*** CATEGORY A TESTS ONLY ***

EXHAUST MASS EMISSION INDICES :

PARAM	TEST MODE	# / 1000# FUEL NO. OBS	# / 1000# FUEL MAX VALUE	# / 1000# FUEL MIN VALUE	# / 1000# FUEL MEAN	# / 1000# FUEL STND DEV	# / 1000# FUEL * COEF VAR	# / HR NO. OBS	# / HR MAX VALUE	# / HR MIN VALUE	# / HR MEAN	# / HR STND DEV	# / HR * COEF VAR
THC	IDLE	1	99.34	99.34				1	140.50	140.50			
	INTERMED. 1	0						0					
	INTERMED. 2	1	0.11	0.11				1	1.13	1.13			
	MILITARY	1	0.14	0.14				1	1.28	1.28			
		0						0					
	MAX A/B	1	0.19	0.19				1	8.94	8.94			
CO	IDLE	1	46.39	46.39				1	128.7	128.7			
	INTERMED. 1	0						0					
	INTERMED. 2	1	1.00	1.00				1	28.2	28.2			
	MILITARY	1	1.24	1.24				1	16.1	16.1			
		0						0					
	MAX A/B	1	14.55	14.55				1	693.5	693.5			
NOX	IDLE	1	2.31	2.31				1	3.45	3.45			
	INTERMED. 1	0						0					
	INTERMED. 2	1	14.61	14.61				1	113.86	113.86			
	MILITARY	1	12.63	12.63				1	158.19	158.19			
		0						0					
	MAX A/B	1	2.22	2.22				1	242.18	242.18			
HC	IDLE	1	6.63	6.63				1	1.02	1.02			
	INTERMED. 1	0						0					
	INTERMED. 2	1	9.78	9.78				1	104.06	104.06			
	MILITARY	1	11.22	11.22				1	140.46	140.46			
		0						0					
	MAX A/B	1	3.47	3.47				1	179.43	179.43			
NO2	IDLE	1	1.03	1.03				1	2.43	2.43			
	INTERMED. 1	0						0					
	INTERMED. 2	1	4.41	0.41				1	9.88	9.88			
	MILITARY	1	1.02	1.02				1	17.73	17.73			
		0						0					
	MAX A/B	1	1.35	1.35				1	62.67	62.67			
SOX	IDLE	0						1	2.08	2.08			
	INTERMED. 1	0						0					
	INTERMED. 2	0						1	15.81	15.81			
	MILITARY	0						1	17.51	17.51			
		0						0					
	MAX A/B	0						1	64.85	64.85			

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SET 3442-004-2574

REPORT DATE 08/20/76
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : J75-P17

TEST LOCATION : TINKER AFB

ENGINE 9. PAGE 2

*** CATEGORY A TESTS ONLY ***

MEASURED FUEL FLOW & SMOKE NUMBER :

	TEST MODE	MEAS. FUEL FLOW - #/HR NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	SMOKE NUMBER NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
	IDLE	1	1498	1498				1	10.50	10.50			
	INTERMED. 1	*						*					
	INTERMED. 2	1	10731	10731				1	53.25	53.25			
	MILITARY	1	12522	12522				1	53.58	53.58			
		*						*					
	MAX A/B	1	45375	45375				1	28.33	28.33			

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SET 1492-004-0870

REPORT DATE 08/20/76
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : J75-P17

TEST LOCATION : EINSEN AFB

ENGINE 9, PAGE 1

*** CATEGORY B TESTS ONLY ***

EXHAUST MASS EMISSION INDICES :

PARAM	TEST MODE	# / 1000# FUEL NO. OBS	# / 1000# FUEL MAX VALUE	# / 1000# FUEL MIN VALUE	# / 1000# FUEL MEAN	# / 1000# FUEL STND DEV	# / 1000# FUEL % COEF VAR	# / HR NO. OBS	# / HR MAX VALUE	# / HR MIN VALUE	# / HR MEAN	# / HR STND DEV	# / HR % COEF VAR
THC	IDLE	2	75.77	66.94	71.85	6.951	9.67	2	113.54	105.17	109.35	5.918	5.41
	INTERMED. 1	2	0.45	0.39	0.42	0.049	11.65	2	3.54	3.25	3.44	0.276	8.00
	INTERMED. 2	2	0.22	0.17	0.19	0.035	18.13	2	2.33	1.71	2.02	0.438	21.70
	MILITARY	2	0.25	0.14	0.19	0.078	39.89	2	3.13	1.78	2.45	0.955	38.88
CO	IDLE	2	99.75	82.27	96.01	5.289	5.15	2	132.7	129.3	131.0	2.40	0.18
	INTERMED. 1	2	2.91	2.81	2.86	0.071	2.47	2	23.2	23.2	23.2	0.00	0.00
	INTERMED. 2	2	1.84	1.83	1.83	0.007	0.39	2	19.4	19.0	19.2	0.28	0.15
	MILITARY	2	1.42	1.38	1.40	0.028	2.02	2	17.6	17.2	17.4	0.28	0.16
NOX	IDLE	2	2.35	2.25	2.30	0.078	3.37	2	3.53	3.49	3.51	0.028	0.81
	INTERMED. 1	2	7.93	7.43	7.68	0.354	4.60	2	65.49	59.20	62.34	4.448	7.13
	INTERMED. 2	2	9.77	9.22	9.49	0.389	4.10	2	103.52	95.13	99.37	5.883	6.04
	MILITARY	2	11.34	10.95	11.15	0.269	2.41	2	141.72	135.75	138.73	4.221	3.04
NO	IDLE	2	0.58	0.42	0.50	0.283	47.14	2	1.18	0.63	0.90	0.389	42.97
	INTERMED. 1	2	5.68	5.43	5.55	0.177	3.18	2	46.94	43.28	45.11	2.588	5.74
	INTERMED. 2	2	7.14	6.98	7.05	0.113	1.60	2	75.73	71.98	73.85	2.652	3.59
	MILITARY	2	9.47	9.26	9.36	0.148	1.59	2	118.28	114.73	116.50	2.510	2.15
NO2	IDLE	2	1.84	1.56	1.70	0.198	11.65	2	2.98	2.31	2.64	0.417	15.82
	INTERMED. 1	2	2.25	2.08	2.13	0.177	8.32	2	18.56	15.92	17.24	1.867	10.83
	INTERMED. 2	2	2.63	2.24	2.43	0.275	11.33	2	27.89	23.15	25.52	3.352	13.13
	MILITARY	2	1.88	1.78	1.79	0.127	7.11	2	23.44	21.82	22.23	1.711	7.70
SOX	IDLE	0						2	2.51	2.07	2.29	0.311	13.59
	INTERMED. 1	0						2	12.74	11.55	12.14	0.841	6.93
	INTERMED. 2	0						2	16.49	14.83	15.66	1.174	7.50
	MILITARY	2						2	19.80	17.48	18.64	1.640	8.80

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SET 1492-003-0876

REPORT DATE 08/20/76
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : J75-P17

TEST LOCATION : TINKER AFB

ENGINE 9, PAGE 2

*** CATEGORY B TESTS ONLY ***

MEASURED FUEL FLOW & SMOKE NUMBER :

		MEAS. FUEL FLOW - #/HR					SMOKE NUMBER					
	TEST MODE	NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
	IDLE	2	1571	1479	1525	65.1	4.27	2	15.00	13.50	14.25	1.061	7.44
	INTERMED. 1	2	8261	7967	8114	207.4	2.56	2	49.50	48.10	48.80	0.990	2.03
	INTERMED. 2	2	18642	18014	18328	323.5	1.95	2	50.00	47.00	53.50	9.192	17.18
	MILITARY	2	12496	12386	12441	75.4	0.58	2	50.50	49.00	49.75	1.061	2.13

SCOTT ENVIRONMENTAL TECHNOLOGY INC. SET 1492-006-0876 REPORT DATE 08/19/76
USAF TURBINE ENGINE EMISSIONS INVENTORY USAF CONTRACT F29601-75-C-0046
ENGINE MODEL SUMMARY REPORT

ENGINE MODEL : J75-19W TEST LOCATION : TINKER AFB ENGINE 8, PAGE 1

*** CATEGORY A TESTS ONLY ***

EXHAUST MASS EMISSION INDICES :

PARAM	TEST MODE	# / 1000 # FUEL NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	# / HR NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
THC	IDLE	3	54.21	28.03	38.15	14.058	36.84	3	85.43	46.44	68.29	21.887	36.17
	INTERMED. 1	3	0.70	0.38	0.52	0.164	31.48	3	6.54	3.29	4.54	1.748	38.47
	INTERMED. 2	3	0.42	0.23	0.31	0.098	31.77	3	5.11	2.78	3.71	1.258	33.66
	MILITARY	3	0.34	0.15	0.24	0.127	42.45	3	5.21	2.87	4.09	1.758	42.83
CO	IDLE	3	67.66	54.85	62.52	7.453	11.92	3	104.3	89.6	98.9	8.09	8.82
	INTERMED. 1	3	3.56	3.09	3.27	0.255	7.76	3	29.8	27.9	28.3	0.59	0.21
	INTERMED. 2	3	2.03	1.66	1.85	0.216	11.29	3	25.1	20.8	22.2	2.61	1.17
	MILITARY	3	1.69	1.29	1.47	0.202	13.72	3	23.2	17.5	20.8	2.90	1.45
NOX	IDLE	3	2.59	2.48	2.55	0.064	2.49	3	4.29	3.91	4.05	0.211	5.22
	INTERMED. 1	3	6.96	6.49	6.77	0.243	3.66	3	64.39	58.95	58.61	6.916	11.80
	INTERMED. 2	3	8.18	8.55	8.45	0.348	3.88	3	110.15	103.42	106.76	3.365	3.15
	MILITARY	3	10.83	10.16	10.44	0.336	3.21	3	147.82	139.63	142.53	3.943	2.77
NO	IDLE	3	0.51	0.37	0.45	0.081	17.45	3	0.85	0.58	0.73	0.139	18.91
	INTERMED. 1	3	5.51	4.79	5.14	0.354	7.02	3	51.71	37.58	44.96	7.086	15.76
	INTERMED. 2	3	7.86	6.94	7.41	0.436	5.87	3	94.38	84.53	88.45	5.163	5.84
	MILITARY	3	9.88	9.24	9.55	0.272	2.85	3	142.98	124.92	129.98	4.351	3.35
NO2	IDLE	3	2.11	2.03	2.07	0.017	0.83	3	3.44	3.17	3.31	0.135	4.09
	INTERMED. 1	3	1.71	1.35	1.57	0.203	12.92	3	14.98	12.68	13.65	1.136	8.32
	INTERMED. 2	3	1.73	1.32	1.54	0.206	13.41	3	20.13	15.84	18.38	2.229	12.18
	MILITARY	3	1.19	0.57	0.93	0.322	34.61	3	15.82	7.85	12.64	4.262	33.73
SOX	IDLE	0						3	2.55	2.43	2.53	0.111	4.37
	INTERMED. 1	0						3	15.48	12.55	13.82	1.227	8.88
	INTERMED. 2	0						3	19.34	18.78	19.07	0.333	1.75
	MILITARY	0						3	21.97	21.56	21.74	0.208	0.96

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SET 1492-008-0876

REPORT DATE 08/19/76
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : J75-19W

TEST LOCATION : TINKER AFB

ENGINE 8, PAGE 2

*** CATEGORY A TESTS ONLY ***

MEASURED FUEL FLOW & SMOKE NUMBER :

	TEST MODE	MEAS. FUEL FLOW - #/HR NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	SMOKE NUMBER NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	* COEF VAR
	IDLE	3	1557	1520	1584	68.4	4.35	3	11.00	10.00	10.67	0.577	5.41
	INTERMED. 1	3	9385	7851	8644	768.4	8.89	3	49.50	45.00	47.00	2.291	4.86
	INTERMED. 2	3	12097	11708	11932	207.4	1.73	3	52.00	50.00	51.00	1.000	1.96
	MILITARY	3	13747	13498	13604	134.9	0.99	2	53.00	50.00	51.50	2.121	4.12

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SET 1,92-08R-0876

REPORT DATE 08/20/76
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : TF33-P3

TEST LOCATION : TINKER AFB

ENGINE 7. PAGE 1

*** CATEGORY A TESTS ONLY ***

EXHAUST MASS EMISSION INDICES :

PARAM	TEST MODE	# / 1000# FUEL NO. OBS	# / 1000# FUEL MAX VALUE	# / 1000# FUEL MIN VALUE	# / 1000# FUEL MEAN	# / 1000# FUEL STND DEV	# / 1000# FUEL % COEF VAR	# / HR NO. OBS	# / HR MAX VALUE	# / HR MIN VALUE	# / HR MEAN	# / HR STND DEV	# / HR % COEF VAR
THC	IDLE	1	108.93	108.93				1	182.18	182.18			
	INTERMED. 1	0						0					
	INTERMED. 2	1	8.88	8.88				1	4.73	4.73			
	MILITARY	1	8.75	8.75				1	5.56	5.56			
CO	IDLE	1	43.93	43.93				1	74.7	74.7			
	INTERMED. 1	0						0					
	INTERMED. 2	1	2.93	2.93				1	17.4	17.4			
	MILITARY	1	2.24	2.24				1	16.5	16.5			
NOX	IDLE	1	2.28	2.28				1	2.06	2.06			
	INTERMED. 1	0						0					
	INTERMED. 2	1	8.98	8.98				1	53.48	53.48			
	MILITARY	1	18.65	18.65				1	78.57	74.57			
NO	IDLE	1	0.62	0.62				1	0.59	0.59			
	INTERMED. 1	0						0					
	INTERMED. 2	1	7.11	7.11				1	42.25	42.25			
	MILITARY	1	8.89	8.89				1	65.56	65.56			
NO2	IDLE	1	1.57	1.57				1	1.47	1.47			
	INTERMED. 1	0						0					
	INTERMED. 2	1	1.88	1.88				1	11.15	11.15			
	MILITARY	1	1.76	1.76				1	13.01	13.01			
SOX	IDLE	0						1	1.31	1.31			
	INTERMED. 1	0						0					
	INTERMED. 2	0						1	8.31	8.31			
	MILITARY	0						1	10.32	10.32			

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

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REPORT DATE 08/20/76
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : TF33-P3

TEST LOCATION : TINKER AFB

ENGINE 7. PAGE 2

*** CATEGORY A TESTS ONLY ***

MEASURED FUEL FLOW & SMOKE NUMBER :

	TEST MODE	MEAS. FUEL FLOW - #/HR NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	SMOKE NUMBER NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
	IDLE	1	938	938				1	10.58	10.58			
	INTERMED. 1	M						M					
	INTERMED. 2	1	5944	5944				1	54.57	54.57			
	MILITARY	1	7375	7375				1	54.58	54.58			

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SET 1492-008-0876

REPORT DATE 08/19/76
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : TF33-P7

TEST LOCATION : TINKER AFB

ENGINE 7, PAGE 1

*** CATEGORY B TESTS ONLY ***

EXHAUST MASS EMISSION INDICES :

PARAM	TEST MODE	# / 1000# FUEL NO. OBS	# / 1000# FUEL MAX VALUE	# / 1000# FUEL MIN VALUE	# / 1000# FUEL MEAN	# / 1000# FUEL STND DEV	# / 1000# FUEL % COEF VAR	# / HR NO. OBS	# / HR MAX VALUE	# / HR MIN VALUE	# / HR MEAN	# / HR STND DEV	# / HR % COEF VAR
THC	IDLE	4	128.29	77.54	105.47	22.308	21.14	4	113.92	71.41	94.19	18.731	19.89
	INTERMED. 1	4	1.14	0.84	1.00	0.132	13.24	4	5.60	4.64	5.10	0.486	9.52
	INTERMED. 2	4	0.71	0.41	0.58	0.143	24.57	4	4.53	2.39	3.68	1.031	28.00
	MILITARY	4	0.53	0.26	0.39	0.162	40.95	4	4.71	1.90	2.95	1.217	41.17
	TAKE-OFF	4	0.52	0.19	0.33	0.150	45.10	4	4.03	1.24	2.64	1.168	44.28
CO	IDLE	4	88.46	79.52	84.02	3.924	4.67	4	78.6	72.9	75.2	2.68	0.36
	INTERMED. 1	4	3.98	2.74	3.56	0.531	14.90	4	19.9	15.4	18.1	2.12	1.17
	INTERMED. 2	4	2.73	2.01	2.28	0.333	14.58	4	15.8	12.8	14.3	1.58	1.05
	MILITARY	4	1.87	1.54	1.66	0.144	8.70	4	13.9	11.7	12.3	1.04	0.64
	TAKE-OFF	4	1.77	1.29	1.51	0.228	15.10	4	13.8	10.4	12.0	1.64	1.37
NOX	IDLE	4	1.95	1.68	1.84	0.114	6.18	4	1.73	1.50	1.65	0.109	6.58
	INTERMED. 1	4	7.13	5.66	5.77	0.229	3.37	4	39.38	31.64	34.75	3.349	9.64
	INTERMED. 2	4	8.51	7.52	8.05	0.426	5.30	4	54.21	43.54	50.57	4.815	9.52
	MILITARY	4	9.92	8.38	9.47	0.419	4.42	4	76.82	66.67	70.55	4.541	6.44
	TAKE-OFF	4	10.52	9.59	10.10	0.419	4.11	4	84.25	74.84	80.79	4.362	5.40
VO	IDLE	4	0.78	0.35	0.51	0.186	36.10	4	0.69	0.31	0.46	0.164	35.59
	INTERMED. 1	4	5.34	4.44	4.96	0.920	18.54	4	34.97	21.39	25.55	6.326	24.76
	INTERMED. 2	4	7.47	5.58	6.25	0.862	13.77	4	48.10	31.86	39.39	6.784	17.02
	MILITARY	4	9.48	5.62	7.52	1.427	13.65	4	68.94	49.38	56.10	8.979	16.01
	TAKE-OFF	4	9.45	7.58	8.14	0.892	10.95	4	75.42	58.57	64.61	7.428	11.49
NO2	IDLE	4	1.68	1.47	1.52	0.225	16.09	4	1.42	0.95	1.19	0.205	17.30
	INTERMED. 1	4	2.24	0.38	1.43	0.687	37.62	4	11.68	4.41	9.20	3.258	35.39
	INTERMED. 2	4	2.28	0.76	1.74	0.696	38.81	4	14.52	4.92	11.17	4.334	38.78
	MILITARY	4	2.45	0.92	1.95	0.698	35.75	4	17.66	7.08	14.45	4.957	34.30
	TAKE-OFF	4	2.67	1.06	2.04	0.695	34.11	4	21.57	8.43	16.18	5.606	34.65
SOX	IDLE	0						4	1.42	0.92	1.25	0.236	18.86
	INTERMED. 1	0						4	7.93	5.51	7.08	1.079	15.24
	INTERMED. 2	0						4	10.19	6.43	8.74	1.616	18.48
	MILITARY	0						4	11.95	7.65	10.37	1.936	18.66
	TAKE-OFF	0						4	12.92	7.96	11.10	2.267	20.43

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SET 1492-088-0876

REPORT DATE 08/19/76
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : TF33-P3

TEST LOCATION : TINKER AFB

ENGINE 7, PAGE 2

*** CATEGORY A TESTS ONLY ***

MEASURED FUEL FLOW & SMOKE NUMBER :

	TEST MODE	MEAS. FUEL FLOW - #/HR						SMOKE NUMBER					
		NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
	IDLE	4	921	884	895	17.2	1.92	4	18.50	10.50	15.00	3.894	25.96
	INTERMED. 1	4	5520	4750	5112	332.8	6.49	4	58.50	53.00	57.88	3.544	6.12
	INTERMED. 2	4	6500	5791	6276	327.1	5.21	4	61.50	51.00	56.88	5.202	9.15
	MILITARY	4	7662	7213	7441	184.9	2.48	4	62.00	51.00	56.88	5.039	8.86
	TAKE-OFF	4	8081	7887	7933	119.2	1.50	4	62.00	54.50	58.13	3.924	6.75

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SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SET 1492-009-1276

REPORT DATE 01/18/77
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : F100-P&100

TEST LOCATION : LANGLEY AFB

ENGINE 16, PAGE 1

***** CATEGORY A TESTS ONLY *****

EXHAUST MASS EMISSION INDICES :

PARAM	TEST MODE	# / 1000# FUEL NO. OBS	# / 1000# FUEL MAX VALUE	# / 1000# FUEL MIN VALUE	# / 1000# FUEL MEAN	# / 1000# FUEL STND DEV	# / 1000# FUEL % COEF VAR	# / HR NO. OBS	# / HR MAX VALUE	# / HR MIN VALUE	# / HR MEAN	# / HR STND DEV	# / HR % COEF VAR
THC	IDLE	2	2.95	2.74	2.84	0.148	5.22	2	4.10	3.96	4.03	0.099	2.46
	INTERMED. 1	0						0					
	INTERMED. 2	3	0.16	0.02	0.08	0.074	96.14	3	0.86	0.06	0.37	0.427	114.44
	MILITARY	2	0.36	0.03	0.19	0.233	119.66	2	3.68	0.30	1.99	2.390	120.10
CO	IDLE	2	24.69	23.40	24.04	0.912	3.79	2	34.3	33.8	34.0	0.35	0.10
	INTERMED. 1	0						0					
	INTERMED. 2	3	2.26	1.13	1.77	0.581	32.77	3	7.7	5.9	7.0	0.99	1.40
	MILITARY	2	0.93	0.85	0.89	0.057	6.36	2	9.5	8.6	9.0	0.64	0.70
NOX	IDLE	2	3.37	3.30	3.33	0.049	1.48	2	4.87	4.59	4.73	0.198	4.19
	INTERMED. 1	0						0					
	INTERMED. 2	3	11.61	7.47	9.22	2.289	24.82	3	61.99	24.96	40.12	19.419	48.40
	MILITARY	2	26.87	26.51	26.69	0.255	0.95	2	276.79	270.42	273.60	4.504	1.65
NO	IDLE	2	1.41	1.33	1.37	0.057	4.13	2	2.03	1.85	1.94	0.127	6.56
	INTERMED. 1	0						0					
	INTERMED. 2	3	9.96	6.15	7.57	2.084	27.55	3	52.30	20.51	33.04	16.930	51.24
	MILITARY	2	22.98	22.58	22.68	0.255	1.12	2	233.17	231.73	232.45	1.018	0.44
NO2	IDLE	2	1.97	1.96	1.96	0.007	0.36	2	2.84	2.74	2.79	0.071	2.53
	INTERMED. 1	0						0					
	INTERMED. 2	3	1.84	1.32	1.65	0.287	17.39	3	9.69	4.39	7.06	2.651	37.44
	MILITARY	2	4.37	3.65	4.01	0.509	12.70	2	45.06	37.25	41.15	5.523	13.42
SOX	IDLE	0						2	2.60	2.50	2.55	0.071	2.77
	INTERMED. 1	0						0					
	INTERMED. 2	0						3	9.44	4.00	6.06	2.939	48.37
	MILITARY	0						2	18.34	12.35	15.34	4.236	27.60

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SET 1492-009-1276

REPORT DATE 01/18/77
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : F100-PW100

TEST LOCATION : LANGLEY AFB

***** CATEGORY A TESTS ONLY *****

MEASURED FUEL FLOW & SMOKE NUMBER :

	TEST MODE	MEAS. FUEL FLOW - #/HR NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	SMOKE NUMBER NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
	IDLE	2	1445	1390	1418	38.9	2.74	1	4.80	4.80			
	INTERMED. 1	0						0					
	INTERMED. 2	3	5250	3333	4193	973.7	23.22	1	23.92	23.92			
	MILITARY	2	10300	10200	10250	70.7	0.69	1	26.84	26.84			

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SET 1492-D10-1276

REPORT DATE 12/15/76
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : F100-PW-100

TEST LOCATION : LANGLEY AFB

ENGINE ID. PAGE 1

***** CATEGORY A TESTS ONLY *****

EXHAUST MASS EMISSION INDICES :

PARAM	TEST MODE	# / 1000# FUEL NO. OBS	# / 1000# FUEL MAX VALUE	# / 1000# FUEL MIN VALUE	# / 1000# FUEL MEAN	# / 1000# FUEL STND DEV	# / 1000# FUEL % COEF VAR	# / HR NO. OBS	# / HR MAX VALUE	# / HR MIN VALUE	# / HR MEAN	# / HR STND DEV	# / HR % COEF VAR
THC	IDLE	5	6.18	2.83	3.68	1.686	45.81	5	7.32	2.84	5.03	1.941	38.57
	INTERMED. 1	5	0.44	0.13	0.29	0.115	38.47	5	1.47	0.42	0.96	0.386	40.01
	INTERMED. 2	5	0.37	0.01	0.17	0.137	80.55	5	1.32	0.03	0.89	0.718	81.64
	MILITARY	5	0.24	0.09	0.09	0.093	100.89	5	2.87	0.04	0.84	0.896	106.67
CO	IDLE	5	32.30	17.51	24.37	4.211	17.26	5	38.6	29.3	33.9	3.92	1.16
	INTERMED. 1	5	3.33	1.63	2.44	0.605	24.35	5	13.8	5.3	8.2	1.96	2.40
	INTERMED. 2	5	1.17	0.02	1.03	0.094	9.03	5	6.3	4.8	5.5	0.54	0.99
	MILITARY	5	0.94	0.63	0.78	0.125	15.52	5	9.3	6.6	8.3	1.09	1.32
NOX	IDLE	5	3.54	3.21	3.35	0.169	5.04	5	5.37	3.89	4.78	0.561	11.93
	INTERMED. 1	5	7.04	6.55	6.74	0.217	3.23	5	22.74	21.33	22.26	0.688	2.73
	INTERMED. 2	5	12.21	10.45	11.22	0.738	6.95	5	67.15	48.24	59.27	6.976	11.77
	MILITARY	5	34.45	23.86	26.66	2.776	10.41	5	323.85	232.88	277.78	41.778	15.04
NO	IDLE	5	1.81	1.05	1.44	0.388	26.92	5	2.72	1.26	2.04	0.553	27.15
	INTERMED. 1	5	6.15	5.67	5.95	0.284	3.44	5	20.88	18.44	19.51	0.641	3.29
	INTERMED. 2	5	10.33	8.89	9.67	0.770	7.82	5	68.13	42.26	52.78	5.558	12.43
	MILITARY	5	26.61	20.67	23.39	2.623	11.22	5	284.23	202.49	243.67	34.177	15.67
NO2	IDLE	5	2.17	1.77	1.92	0.166	8.64	5	2.83	2.53	2.67	0.118	4.14
	INTERMED. 1	5	4.45	4.08	4.24	0.164	12.64	5	3.17	2.27	2.74	0.333	12.14
	INTERMED. 2	5	1.47	1.02	1.25	0.171	13.73	5	8.82	5.25	6.57	1.049	15.97
	MILITARY	5	3.66	2.41	3.27	0.331	10.13	5	38.82	28.66	34.82	4.835	14.21
SOX	IDLE	0						5	2.61	1.92	2.41	0.288	11.95
	INTERMED. 1	0						5	6.82	5.28	5.64	0.405	7.18
	INTERMED. 2	0						5	9.71	8.39	9.05	0.623	6.88
	MILITARY	0						5	20.32	16.34	17.83	1.575	8.83

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SET 1442-D10-1276

REPORT DATE 12/15/76
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : F101-GE-100

TEST LOCATION : LANGLEY AFB

ENGINE ID. PAGE 2

***** CATEGORY B TESTS ONLY *****

MEASURED FUEL FLOW & SMOKE NUMBER :

	TEST CODE	MEAS. FUEL FLOW - #/HR					SMOKE NUMBER				
		NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
-----	----------	----	------	------	------	------	------	----	------	------	------	------	------
	IDLE	5	1598	12 8	1488	117.3	8.38	4	24.24	4.88	12.17	5.642	54.56
	INTERMED. 1	5	3358	3258	3248	44.7	1.36	4	22.88	14.54	18.15	3.443	17.98
	INTERMED. 2	5	5588	4868	5278	277.5	5.27	4	35.58	28.28	31.42	2.981	9.34
	MILITARY	5	11388	9648	10388	625.1	6.03	4	35.78	32.58	34.58	1.388	4.02

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SET 1492-D14-0177

REPORT DATE 02/08/77
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : TF34-100

TEST LOCATION : G.E. LYNN

ENGINE 20, PAGE 1

***** CATEGORY A TESTS ONLY *****

EXHAUST MASS EMISSION INDICES :

PARAM	TEST MODE	# / 1000# FUEL: NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	# / HR: NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
THC	IDLE	1	29.09	29.09				1	11.20	11.20			
	INTERMED. 1	0						0					
	APPROACH	1	0.47	0.47				1	0.43	0.43			
	CRUISE	1	0.08	0.08				1	0.12	0.12			
	MAX.CONT.PWR	1	0.05	0.05				1	0.12	0.12			
	TAKE-OFF	0						0					
	MAX.REDLINE	1	0.03	0.03				1	0.12	0.12			
CO	IDLE	1	104.36	104.36				1	40.2	40.2			
	INTERMED. 1	0						0					
	APPROACH	1	11.96	11.96				1	11.0	11.0			
	CRUISE	1	3.62	3.62				1	5.4	5.4			
	MAX.CONT.PWR	1	2.33	2.33				1	5.7	5.7			
	TAKE-OFF	0						0					
	MAX.REDLINE	1	1.92	1.92				1	6.9	6.9			
NOX	IDLE	1	2.01	2.01				1	0.77	0.77			
	INTERMED. 1	0						0					
	APPROACH	1	5.40	5.40				1	4.95	4.95			
	CRUISE	1	7.24	7.24				1	10.85	10.85			
	MAX.CONT.PWR	1	9.75	9.75				1	23.84	23.84			
	TAKE-OFF	0						0					
	MAX.REDLINE	1	11.43	11.43				1	41.20	41.20			
NO	IDLE	1	0.08	0.08				1	0.03	0.03			
	INTERMED. 1	0						0					
	APPROACH	1	3.78	3.78				1	3.47	3.47			
	CRUISE	1	5.78	5.78				1	8.67	8.67			
	MAX.CONT.PWR	1	8.02	8.02				1	19.60	19.60			
	TAKE-OFF	0						0					
	MAX.REDLINE	1	9.53	9.53				1	34.35	34.35			
NO2	IDLE	1	1.93	1.93				1	0.74	0.74			
	INTERMED. 1	0						0					
	APPROACH	1	1.61	1.61				1	1.48	1.48			
	CRUISE	1	1.45	1.45				1	2.18	2.18			
	MAX.CONT.PWR	1	1.73	1.73				1	4.24	4.24			
	TAKE-OFF	0						0					
	MAX.REDLINE	1	1.90	1.90				1	6.85	6.85			
SOX	IDLE	0						1	0.46	0.46			

INTERMED. 1	0		0		
APPROACH	0		1	1.10	1.10
CRUISE	0		1	1.80	1.80
MAX.CONT.P.R	0		1	2.93	2.93
TAKE-OFF	0		0		
MAX.REDLINE	0		1	4.32	4.32

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SET 1492-014-0177

REPORT DATE 02/08/77
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : TF34-100

TEST LOCATION : G.E. LYNN

***** CATEGORY A TESTS ONLY *****

MEASURED FUEL FLOW & SMOKE NUMBER :

	TEST MODE	MEAS. FUEL FLOW - #/HR NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	SMOKE NUMBER NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
	IDLE	1	385	385				1	3.67	3.67			
	INTERMED. 1	0						0					
	APPROACH	1	917	917				1	1.79	1.79			
	CRUISE	1	1499	1499				1	2.25	2.25			
	MAX.CONT.PWR	1	2445	2445				1	9.79	9.79			
	TAKE-OFF	0						0					
	MAX.REDLINE	1	3606	3606				1	20.21	20.21			

SCOTT ENVIRONMENTAL TECHNOLOGY INC. SET 1492-014-0177 REPORT DATE 02/08/77
USAF TURBINE ENGINE EMISSIONS INVENTORY USAF CONTRACT F29601-75-C-0046
ENGINE MODEL SUMMARY REPORT

ENGINE MODEL : TF34-100 TEST LOCATION : G.E. LYNN ENGINE 20, PAGE 2

***** CATEGORY C TESTS ONLY *****

MEASURED FUEL FLOW & SMOKE NUMBER :

		---------- MEAS. FUEL FLOW - #/HR ----------					*---------- SMOKE NUMBER ----------*				
	TEST MODE	NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
	IDLE	1	381	381				1	2.88	2.88			
	INTERMED. 1	1	438	438				1	1.13	1.13			
	APPROACH	1	918	918				1	0.50	0.50			
	CRUISE	1	1491	1491				1	0.25	0.25			
	MAX.CONT.PWR	1	2569	2569				1	7.75	7.75			
	TAKE-OFF	1	2836	2836				1	9.50	9.50			
	MAX.REDLINE	1	3232	3232				1	14.63	14.63			

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SET 1492-014-0177

REPORT DATE 02/08/77
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : TF34-100

TEST LOCATION : G.E. LYNN

ENGINE 2C, PAGE 1

***** CATEGORY C TESTS ONLY *****

EXHAUST MASS EMISSION INDICES :

PARAM	TEST MODE	# / 1000# FUEL NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	# / HR NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
THC	IDLE	1	28.04	28.04				1	10.68	10.68			
	INTERMED. 1	1	16.82	16.82				1	7.37	7.37			
	APPROACH	1	1.06	1.06				1	0.97	0.97			
	CRUISE	1	0.31	0.31				1	0.46	0.46			
	MAX.CONT.PWR	1	0.26	0.26				1	0.67	0.67			
	TAKE-OFF	1	0.10	0.10				1	0.28	0.28			
	MAX.REDLINE	1	0.08	0.08				1	0.27	0.27			
CO	IDLE	1	107.24	107.24				1	40.9	40.9			
	INTERMED. 1	1	80.98	80.98				1	35.5	35.5			
	APPROACH	1	16.63	16.63				1	15.3	15.3			
	CRUISE	1	4.58	4.58				1	6.8	6.8			
	MAX.CONT.PWR	1	2.37	2.37				1	6.1	6.1			
	TAKE-OFF	1	2.18	2.18				1	6.2	6.2			
	MAX.REDLINE	1	1.92	1.92				1	6.2	6.2			
NOX	IDLE	1	2.15	2.15				1	0.82	0.82			
	INTERMED. 1	1	2.70	2.70				1	1.18	1.18			
	APPROACH	1	6.52	6.52				1	5.99	5.99			
	CRUISE	1	8.32	8.32				1	12.41	12.41			
	MAX.CONT.PWR	1	10.61	10.61				1	27.77	27.77			
	TAKE-OFF	1	11.11	11.11				1	31.50	31.50			
	MAX.REDLINE	1	12.04	12.04				1	38.93	38.93			
NO	IDLE	1	0.09	0.09				1	0.03	0.03			
	INTERMED. 1	1	0.12	0.12				1	0.05	0.05			
	APPROACH	1	4.32	4.32				1	3.97	3.97			
	CRUISE	1	6.64	6.64				1	9.90	9.90			
	MAX.CONT.PWR	1	8.87	8.87				1	22.78	22.78			
	TAKE-OFF	1	9.13	9.13				1	25.89	25.89			
	MAX.REDLINE	1	10.07	10.07				1	32.55	32.55			
NO2	IDLE	1	2.06	2.06				1	0.79	0.79			
	INTERMED. 1	1	2.58	2.58				1	1.13	1.13			
	APPROACH	1	2.20	2.20				1	2.02	2.02			
	CRUISE	1	1.68	1.68				1	2.50	2.50			
	MAX.CONT.PWR	1	1.95	1.95				1	5.00	5.00			
	TAKE-OFF	1	1.98	1.98				1	5.62	5.62			
	MAX.REDLINE	1	1.97	1.97				1	6.38	6.38			
SOX	IDLE	0						1	0.23	0.23			

INTERMED. 1	0	1	0.26	0.26
APPROACH	0	1	0.55	0.55
CRUISE	0	1	0.89	0.89
MAX.CONT.PWR	0	1	1.54	1.54
TAKE-OFF	0	1	1.70	1.70
MAX.REDLINE	0	1	1.94	1.94

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SET 1492-014-0177

REPORT DATE 02/08/77
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : TF34-100

TEST LOCATION : G.E. LYNN

ENGINE 20, PAGE 1

***** CATEGORY B TESTS ONLY *****

EXHAUST MASS EMISSION INDICES :

PARAM	TEST MODE	# / 1000# FUEL NO. OBS	# / 1000# FUEL MAX VALUE	# / 1000# FUEL MIN VALUE	# / 1000# FUEL MEAN	# / 1000# FUEL STND DEV	# / 1000# FUEL % COEF VAR	# / HR NO. OBS	# / HR MAX VALUE	# / HR MIN VALUE	# / HR MEAN	# / HR STND DEV	# / HR % COEF VAR
THC	IDLE	5	43.35	24.94	34.34	8.434	24.56	5	17.00	9.50	13.32	3.269	24.54
	INTERMED. 1	5	23.42	16.03	20.26	2.668	13.17	5	10.80	7.02	9.27	1.454	15.68
	APPROACH	5	1.75	0.85	1.18	0.350	29.59	5	1.58	0.79	1.09	0.305	28.05
	CRUISE	5	0.41	0.10	0.21	0.118	56.82	5	0.61	0.16	0.31	0.176	56.84
	MAX.CONT.P&R	5	0.17	0.04	0.10	0.060	57.93	5	0.45	0.09	0.27	0.164	61.69
	TAKE-OFF	5	0.14	0.01	0.06	0.065	101.62	5	0.41	0.04	0.19	0.187	100.63
	MAX.REDLINE	4	0.07	0.02	0.04	0.024	63.01	4	0.21	0.06	0.11	0.071	62.10
CO	IDLE	5	116.02	101.02	106.62	6.417	6.02	5	44.0	39.4	41.4	2.26	0.55
	INTERMED. 1	5	82.19	72.62	77.95	4.584	5.88	5	37.7	33.6	35.5	1.51	0.42
	APPROACH	5	20.20	14.82	16.29	2.223	13.65	5	18.2	13.8	15.0	1.81	1.21
	CRUISE	5	6.67	3.64	4.89	1.230	25.15	5	8.6	5.5	7.1	1.41	1.97
	MAX.CONT.P&R	5	2.70	2.07	2.26	0.262	11.56	5	6.9	5.1	5.6	0.70	1.21
	TAKE-OFF	5	2.46	1.81	2.07	0.245	11.81	5	6.9	5.6	5.9	0.71	1.21
	MAX.REDLINE	4	2.12	1.70	1.93	0.176	9.07	4	7.0	5.4	6.3	0.68	1.08
NOX	IDLE	5	2.22	1.99	2.08	0.091	4.37	5	0.85	0.78	0.81	0.029	3.57
	INTERMED. 1	5	2.82	2.37	2.64	0.170	6.44	5	1.38	1.04	1.21	0.122	10.09
	APPROACH	5	6.38	5.24	5.70	0.428	7.51	5	5.86	4.73	5.26	0.417	7.93
	CRUISE	5	8.42	7.16	7.65	0.480	6.27	5	12.55	9.49	11.27	1.159	10.29
	MAX.CONT.P&R	5	11.34	9.77	10.34	0.593	5.73	5	29.14	25.21	26.61	1.509	5.67
	TAKE-OFF	5	11.90	10.14	11.00	0.639	5.81	5	33.74	29.27	31.17	1.617	5.19
	MAX.REDLINE	4	12.56	11.15	11.86	0.585	4.93	4	40.61	36.96	38.74	1.569	4.05
NO	IDLE	5	0.12	0.09	0.10	0.011	10.96	5	0.05	0.04	0.04	0.004	10.65
	INTERMED. 1	5	0.18	0.11	0.14	0.029	20.82	5	0.09	0.05	0.06	0.017	26.15
	APPROACH	5	4.33	3.21	3.78	0.399	10.56	5	3.98	2.89	3.49	0.392	11.25
	CRUISE	5	6.75	5.78	6.06	0.408	6.74	5	10.06	7.56	8.92	0.937	10.51
	MAX.CONT.P&R	5	9.35	8.10	8.47	0.514	6.07	5	24.02	20.42	21.81	1.329	6.10
	TAKE-OFF	5	9.81	8.40	9.03	0.569	6.31	5	27.81	24.26	25.59	1.359	5.30
	MAX.REDLINE	4	10.52	9.31	9.87	0.534	5.41	4	33.99	30.86	32.22	1.300	4.03
NO2	IDLE	5	2.11	1.88	1.98	0.087	4.42	5	0.80	0.74	0.77	0.024	3.14
	INTERMED. 1	5	2.63	2.24	2.50	0.153	6.12	5	1.29	0.96	1.14	0.113	9.90
	APPROACH	5	2.05	1.75	1.93	0.121	6.28	5	1.88	1.62	1.77	0.098	5.52
	CRUISE	5	1.75	1.38	1.56	0.142	8.88	5	2.66	1.98	2.35	0.294	12.51
	MAX.CONT.P&R	5	1.99	1.67	1.87	0.137	7.35	5	5.17	4.43	4.81	0.335	6.97
	TAKE-OFF	5	2.20	1.74	1.97	0.162	8.25	5	6.36	5.01	5.58	0.568	10.18
	MAX.REDLINE	4	2.16	1.84	1.99	0.140	7.00	4	7.25	6.10	6.52	0.541	8.30
SOX	IDLE	0						5	0.53	0.16	0.32	0.165	50.79

INTERMED. 1	0				5	0.64	0.20	0.36	0.191	50.56
APPROACH	0				5	1.31	0.36	0.76	0.410	52.82
CRUISE	0				5	2.14	0.51	1.26	0.695	55.25
MAX.CONT.PWR	0				5	3.69	1.02	2.16	1.117	51.71
TAKE-OFF	0				5	4.06	1.12	2.36	1.241	52.05
MAX.REDLINE	0				4	4.68	1.94	3.10	1.364	43.92

SCOTT ENVIRONMENTAL TECHNOLOGY INC.
USAF TURBINE ENGINE EMISSIONS INVENTORY
ENGINE MODEL SUMMARY REPORT

SET 1492-014-0177

REPORT DATE 02/08/77
USAF CONTRACT F29601-75-C-0046

ENGINE MODEL : TF34-100

TEST LOCATION : G.E. LYNN

***** CATEGORY B TESTS ONLY *****

MEASURED FUEL FLOW & SMOKE NUMBER :

	TEST MODE	MEAS. FUEL FLOW - #/HR NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR	SMOKE NUMBER NO. OBS	MAX VALUE	MIN VALUE	MEAN	STND DEV	% COEF VAR
	IDLE	5	395	379	388	7.6	1.96	5	5.75	2.75	3.63	1.298	35.81
	INTERMED. 1	5	490	437	457	21.6	4.73	5	2.88	1.63	2.30	0.498	21.60
	APPROACH	5	936	902	922	12.9	1.40	5	2.63	0.13	1.20	0.942	78.24
	CRUISE	5	1531	1286	1472	103.9	7.06	5	1.25	0.00	0.68	0.513	75.95
	MAX.CONT.PWR	5	2649	2472	2575	72.9	2.83	5	9.25	3.38	6.13	2.559	41.76
	TAKE-OFF	5	2900	2764	2836	56.6	2.07	5	16.63	7.50	10.45	3.779	36.16
	MAX.REDLINE	4	3347	3179	3268	76.7	2.35	4	24.50	14.88	18.69	4.467	23.90

INITIAL DISTRIBUTION

ADTC/CS	1
DDC/TCA	2
HQ AFSC/DL	1
HQ AFSC/SD	1
HQ USAF/LEEV	1
HQ USAF/SGPA	1
OSAF/MIQ	1
OSAF/OI	1
AFIT/Library	1
AFIT/DE	1
Federal Laboratory Program	1
EPA/ORD	1
USA Chief, R&D/EQ	1
USN Chief, R&D/EQ	1
OEHL/CC	2
AFCEC/DEV	1
USAFSAM/EDE	2
HQ AFISC	2
AUL/LSE	1
HQ USAFA/Library	1
Det 1 ADTC/TST	1
1 MSEW	1
OUSDR&E	1
USAF Hospital, Wiesbaden	1
USN/NEPSS	1
Naval Air Propulsion Center	1
AMD/CC	1
AMRL/CC	1
USAFESAM/CC	1
USAFESAM/VNL	2
AFGL/CC	1
AFAPL/CC	1
AFAPL/TBC	2
ASD/CC	1
AEDC/CC	1
AEDC/DYR	1
OC-ALC/MA	1
San Antonio ALC/MAEEE	1
San Antonio ALC/MA	1
HQ AFLC/MA	1
HQ AFLC/DE	1
HQ AFLC/SGB	1
Aircraft Env Support Office	1
Federal Aviation Administration	1
Det 1 ADTC/ECA	3
US Army Aviation Systems Command	2
General Electric Company	1
Pratt & Whitney Aircraft Div	1

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